
# Standard Power Supplies

From The World's No.1 Power Supply Company

2013

www.DeltaPSU.com

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# Company Profile
## Delta Electronics Group

### World's No.1* Power Supply Company

Delta Electronics Group is the world's largest provider of switching power supplies and a major source for power management solutions, components, visual displays, industrial automation, networking products and renewable energy solutions. Established in 1971, Delta has sales offices and R&D facilities worldwide with manufacturing plants located in Taiwan, Thailand, China, Mexico, India and Europe.

As a global leader in power electronics, Delta has long been adopting Green manufacturing processes, recycling initiatives, waste management programs and environmentally-friendly green buildings. Delta's effort was recognized by CNBC European Business magazine as a Global Top 100 Low-Carbon Pioneer. This relentless endeavor is also reflected in Delta's corporate mission: "To provide innovative, clean and energy-efficient solutions for a better tomorrow." Delta has seen strong double-digit revenue growth since 1994.

Many top tier companies on the Fortune® 500 list has long regarded Delta as a trusted ODM (Original Design Manufacturer) partner. These companies expect nothing less than the best technology, quality and reliability. With Delta's continuing growth and expanding customer base for decades, the results speak for itself.

Since 2008, Delta had started introducing its own brand of standard power supplies. These products offer customers the same world class technology and quality that Delta's ODM partners are familiar with. Due to the fast growing popularity of Delta's CliQ DIN Rail power supplies and PMC Panel Mount power supplies series, more product types will be introduced regularly.

For more information, please visit Delta standard power supplies homepage at **www.DeltaPSU.com**.

### Customization

With decades of industrial leading manufacturing and design experiences in ODM power management products, we can cater to specific customer needs in industrial applications.

Please do not hesitate to contact your local Delta Electronics distributor or simply send your query to **info@deltapsu.com**.

*Based on global sales revenue from the Micro-Tech Consultants March 2013 report

# Selection Guide
## Delta Standard Power Supplies

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

| Product Type | Series | Model Name | Phase | | PFC | Output Voltage | Output Current | Output Power | | | | | | | | | Input Voltage Range | Features | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 3 | | | | 10W | 15W | 30W | 60W | 100W | 120W | 240W | 480W | 960W | | | |
| DIN Rail Power Supplies | CliQ | DRP012V015W1A☐ | ● | | | 12V | 1.25A | | ● | | | | | | | | 85-264Vac (DC input range 120-375Vdc) | CliQ Series<br>• Universal AC input voltage without power de-rating<br>• Power Boost of 150% for 3 seconds (480W: 200% for 2 seconds)<br>• Full corrosion resistant Aluminium chassis<br>• Conforms to harmonic current IEC/EN 61000-3-2, Class A<br>• Multiple wire connections to terminals allowed<br>• Conformal coating on PCBA to protect against chemical and dust pollutants<br>• Hazardous Locations approval to ATEX and Class I, Div 2<br><br>CliQ II Series<br>• Universal AC input voltage without power de-rating<br>• Power Boost of 150% for 5 seconds (480W: 200% for 2 seconds)<br>• Full corrosion resistant Aluminium chassis<br>• Conforms to harmonic current IEC/EN 61000-3-2, Class A<br>• Conformal coating on PCBA to protect against chemical and dust pollutants<br>• Hazardous Locations approval to ATEX and Class I, Div 2<br>• Extreme low temperature cold start at -40°C<br><br>Chrome Series<br>• Class II double isolation (No Earth connection is required)<br>• Universal AC input voltage without power de-rating<br>• Can be installed in compact cabinets<br>• NEC Class 2 power supply and Limited Power Source (LPS) approvals for selected models<br>• Conforms to harmonic current IEC/EN 61000-3-2, Class A<br>• Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and UL 508 (Industrial standard) | 08-09 |
| | | DRP012V030W1A☐ | ● | | | | 2.50A | | | ● | | | | | | | | | |
| | | DRP012V060W1A☐ | ● | | | | 5.00A | | | | ● | | | | | | | | |
| | | DRP012V100W1A☐ | ● | | | | 8.33A | | | | | ● | | | | | | | |
| | | DRP024V060W1AZ | ● | | | 24V | 2.50A | | | | ● | | | | | | 85-264Vac (DC input range 120-375Vdc) | | 10-11 |
| | | DRP024V060W1A☐ | ● | | | | 2.50A | | | | ● | | | | | | | | |
| | | DRP024V120W1A☐ | ● | | ● | | 5.00A | | | | | | ● | | | | | | |
| | | DRP024V240W1A☐ | ● | | ● | | 10.0A | | | | | | | ● | | | | | |
| | | DRP024V480W1A☐ | ● | | ● | | 20.0A | | | | | | | | ● | | | | |
| | | DRP024V060W3AA | | ● | | | 2.50A | | | | ● | | | | | | 3 x 320-575Vac (DC input range 450-800Vdc) | | 12-13 |
| | | DRP024V120W3AA | | ● | | | 5.00A | | | | | | ● | | | | | | |
| | | DRP024V240W3AA | | ● | | | 10.0A | | | | | | | ● | | | | | |
| | | DRP024V480W3AA | | ● | | | 20.0A | | | | | | | | ● | | | | |
| | CliQ II | DRP024V060W1N☐ | ● | | | | 2.50A | | | | ● | | | | | | 85-264Vac (DC input range 120-375Vdc) | | 14-15 |
| | | DRP024V060W1B☐ | ● | | | | 2.50A | | | | ● | | | | | | | | |
| | | DRP024V120W1B☐ | ● | | | | 5.00A | | | | | | ● | | | | | | |
| | | DRP024V240W1B☐ | ● | | ● | | 10.0A | | | | | | | ● | | | | | |
| | | DRP024V480W1B☐ | ● | | ● | | 20.0A | | | | | | | | ● | | | | |
| | | DRP024V060W3B☐ | | ● | | | 2.50A | | | | ● | | | | | | 3 x 320-600Vac (DC input range 450-800Vdc) | | 16-17 |
| | | DRP024V120W3B☐ | | ● | | | 5.00A | | | | | | ● | | | | | | |
| | | DRP024V240W3B☐ | | ● | | | 10.0A | | | | | | | ● | | | | | |
| | | DRP024V480W3B☐ | | ● | ● | | 20.0A | | | | | | | | ● | | | | |
| | | DRP024V960W3B☐ | | ● | ● | | 40.0A | | | | | | | | | ● | | | |
| | | DRP048V060W1B☐ | ● | | | 48V | 1.25A | | | | ● | | | | | | 85-264Vac (DC input range 120-375Vdc) | | 18-19 |
| | | DRP048V120W1B☐ | ● | | ● | | 2.50A | | | | | | ● | | | | | | |
| | | DRP048V240W1B☐ | ● | | ● | | 5.00A | | | | | | | ● | | | | | |
| | | DRP048V480W1B☐ | ● | | ● | | 10.0A | | | | | | | | ● | | | | |
| | Chrome | DRC-24V10W1AZ | ● | | | 24V | 0.42A | ● | | | | | | | | | 90-264Vac (DC input range 125-375Vdc) | | 20-21 |
| | | DRC-24V100W1AZ | ● | | | | 3.80A | | | | | ● | | | | | | | |

| Product Type | Series | Model Name | Output Voltage | Output Current | Input Current | Input Voltage Range | Features | Page |
|---|---|---|---|---|---|---|---|---|
| Redundancy Modules | CliQ II | DRR-20A | 22-60V | 20.0A | (1+1 Redundancy) = Nom. 2 x 12.5A; (N+1 Redundancy) = Nom. 2 x 10A | 22-60Vdc | • ORing Diode with fault relay function | 22-23 |
| | | DRR-40A | | 40.0A | (1+1 Redundancy) = Nom. 2 x 25A; (N+1 Redundancy) = Nom. 2 x 20A | | | |
| Buffer Module | | DRB-24V020ABA | 24V | 20.0A | Charging Mode: < 0.6A; Discharging Mode: < 20A | 22.8-28.8Vdc | • Longest minimum buffering time of 250ms | |

### CliQ and CliQ II DIN Rail Power Supply Model Numbering

| DR | P | XXXV | XXXW | ☐ | ☐ | ☐ |
|---|---|---|---|---|---|---|
| DIN Rail | Product Type<br>P - Power Supply | Output Voltage | Output Power | Phase Input<br>1 - Single Phase<br>3 - Three Phase | A - CliQ Series<br>B - CliQ II Series<br>N - NEC Class 2 | A - Metal Case, with Class I, Div 2<br>N - Metal Case, without Class I, Div 2<br>Y - Plastic Case, with Class I, Div 2<br>Z - Plastic Case, without Class I, Div 2 |

### Chrome DIN Rail Power Supply Model Numbering

| DR | C – | XXV | XXW | 1 | A | Z |
|---|---|---|---|---|---|---|
| DIN Rail | Product Type<br>C - Isolation Class II Power Supply | Output Voltage | Output Power | Phase Input<br>1 - Single Phase | No PFC Series | Delta Standard |

### CliQ II Redundancy Modules Model Numbering

| DR | R – | XX | ☐ |
|---|---|---|---|
| DIN Rail | Product Type<br>R - Redundant Module | Output Current<br>20 - 20A<br>40 - 40A | A - Metal Case, with Class I, Div 2<br>N - Metal Case, without Class I, Div 2 |

### CliQ II Buffer Module Model Numbering

| DR | B – | 24V | 020A | B | ☐ |
|---|---|---|---|---|---|
| DIN Rail | Product Type<br>B - Buffer Module | Output Voltage | Output Current | CliQ II Series | A - Metal Case, with Class I, Div 2<br>N - Metal Case, without Class I, Div 2 |

# Selection Guide
## Delta Standard Power Supplies

New products are frequently introduced. Please visit www.DeltaPSU.com for latest product updates.

| Product Type | Series | Model Name | Phase 1 | Phase 3 | PFC | Output Voltage | Output Current | Output Power 15W | 30W | 35W | 50W | 75W | 100W | 150W | 300W | 350W | Input Voltage Range | Features | Page |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Panel Mount Power Supplies | PMC | PMC-05V015W1AA | ● | | | 5V | 3.00A | ● | | | | | | | | | 85-264Vac (DC input range 125-375Vdc) | PMC Series<br>• Universal AC input voltage without power de-rating<br>• Full corrosion resistant Aluminium chassis<br>• Conforms to harmonic current IEC/EN 61000-3-2, Class A<br>• High MTBF > 700,000 hrs per Telcordia SR-332<br>• Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55022, Class B<br>• IP20 and Front Face connector options for selected models<br><br>PMT Series<br>• AC input voltage selectable by switch (Universal AC input voltage for selected models only)<br>• Conforms to harmonic current IEC/EN 61000-3-2, Class A<br>• Versatile configuration options:<br>- Open Frame (35W and 50W)<br>- L Frame<br>- Enclosed<br><br>PJ Series<br>• Universal AC input voltage range<br>• High PF > 0.97<br>• Low inrush current / Low leakage current<br>• Conforms to harmonic current IEC/EN 61000-3-2, Class A<br>• Conformal coating on PCBA to protect against chemical and dust pollutants<br>• Versatile configuration options: Open Frame, L Frame, Enclosed<br>• Remote ON/OFF option for selected models<br>• Long life capacitors | 26-27 |
| | | PMC-05V035W1AA | ● | | | | 7.00A | | | ● | | | | | | | | | |
| | | PMC-05V050W1AA | ● | | | | 10.0A | | | | ● | | | | | | | | |
| | | PMC-12V035W1AA | ● | | | 12V | 3.00A | | | ● | | | | | | | 85-264Vac (DC input range 125-375Vdc) | | 28-29 |
| | | PMC-12V050W1AA | ● | | | | 4.17A | | | | ● | | | | | | | | |
| | | PMC-12V100W1AA | ● | | | | 8.33A | | | | | | ● | | | | | | |
| | | PMC-12V150W1B□ | ● | | ● | | 12.5A | | | | | | | ● | | | 85-264Vac (DC input range 125-375Vdc) | | |
| | | PMC-24V035W1A□ | ● | | | 24V | 1.46A | | | ● | | | | | | | 85-264Vac (DC input range 125-375Vdc) | | 30-31 |
| | | PMC-24V050W1A□ | ● | | | | 2.10A | | | | ● | | | | | | | | |
| | | PMC-24V075W1A□ | ● | | | | 3.12A | | | | | ● | | | | | | | |
| | | PMC-24V100W1A□ | ● | | | | 4.17A | | | | | | ● | | | | | | |
| | | PMC-24V150W1A□ | ● | | | | 6.25A | | | | | | | ● | | | 85-264Vac (DC input range 125-375Vdc) | | 32-33 |
| | | PMC-24V150W1B□ | ● | | ● | | 6.25A | | | | | | | ● | | | | | |
| | | PMC-24V150W2AA | ● | | | | 6.25A | | | | | | | ● | | | 180-264Vac (DC input range 220-375Vdc) | | |
| | | PMC-24V300W1BA | ● | | ● | | 12.5A | | | | | | | | ● | | 85-264Vac (DC input range 125-375Vdc) | | |
| | | PMC-DSPV100W1A | ● | | | 24V / 5V | 4.00A / 7.00A | | | | | | ● | | | | 85-264Vac (DC input range 125-375Vdc) | | |
| | PMT | PM□-12V35W1A□ | ● | | | 12V | 2.92A | | | ● | | | | | | | 90-264Vac | | 34-35 |
| | | PM□-12V50W1A□ | ● | | | | 4.17A | | | | ● | | | | | | | | |
| | | PM□-12V100W1A□ | ● | | | | 8.30A | | | | | | ● | | | | | | |
| | | PM□-12V150W1A□ | ● | | | | 12.5A | | | | | | | ● | | | | | |
| | | PM□-24V35W1A□ | ● | | | 24V | 1.46A | | | ● | | | | | | | 90-264Vac | | 36-37 |
| | | PM□-24V50W1A□ | ● | | | | 2.10A | | | | ● | | | | | | | | |
| | | PM□-24V100W1A□ | ● | | | | 4.50A | | | | | | ● | | | | 90-132Vac, 180-264Vac (Selectable Switch) | | |
| | | PM□-24V150W1A□ | ● | | | | 6.50A | | | | | | | ● | | | | | |
| | | PMT-24V350W1AG | ● | | | | 14.6A | | | | | | | | | ● | 90-132Vac, 180-264Vac (Selectable Switch) | | 38-39 |
| | | PMT-24V350W1AK | ● | | | | 14.6A | | | | | | | | | ● | | | |
| | | PMT-4.2V350W1AM | ● | | | 4.2V | 60.0A | | | | | | | | | ● | | | |
| | | PMT-5V350W1AM | ● | | | 5V | 60.0A | | | | | | | | | ● | | | |
| Open Frame Power Supplies | PJ | PJ-12V15W□NA | ● | | | 12V | 1.30A | ● | | | | | | | | | 85-264Vac | | 42-44 |
| | | PJ-12V30W□NA | ● | | | | 2.50A | | ● | | | | | | | | | | |
| | | PJ-12V50W□NA | ● | | | | 4.30A | | | | ● | | | | | | | | |
| | | PJ-12V100W□□A | ● | | | | 8.50A | | | | | | ● | | | | | | |
| | | PJ-12V150W□□A | ● | | | | 12.5A | | | | | | | ● | | | | | |
| | | PJ-24V30W□NA | ● | | | 24V | 1.25A | | ● | | | | | | | | 85-264Vac | | 45-47 |
| | | PJ-24V50W□NA | ● | | | | 2.10A | | | | ● | | | | | | | | |
| | | PJ-24V100W□□A | ● | | | | 4.30A | | | | | | ● | | | | | | |
| | | PJ-24V150W□□A | ● | | | | 6.30A | | | | | | | ● | | | | | |
| | | PJ-5V15W□NA | ● | | | 5V | 3.00A | ● | | | | | | | | | 85-264Vac | | 48-49 |
| | | PJ-48V50W□NA | ● | | | 48V | 1.10A | | | | ● | | | | | | | | |

### PMC Panel Mount Power Supply Model Numbering

| PM | C – | XXV | XXXW | □ | □ | □ |
|---|---|---|---|---|---|---|
| Panel Mount | Product Type<br>C - Enclosed | Output Voltage | Output Power | Phase Input<br>1 - Single Phase, Wide Range Input Voltage<br>2 - Single Phase, High Line Input Voltage | A - No PFC Series<br>B - With PFC Series | Connector Type<br>A - Terminal Block<br>J - IP20 Connector*<br>L - Front Face* |

*Options

### PMC Panel Mount Power Supply (Dual Output) Model Numbering

| PM | C – | D | SPV | 100W | 1 | A |
|---|---|---|---|---|---|---|
| Panel Mount | Product Type<br>C - Enclosed | Dual Output | Output Voltage<br>S - 24V<br>P - 5V | Output Power | Phase Input<br>Single Phase | Delta Standard |

### PMT Panel Mount Power Supply Model Numbering

| PM | □ – | XXV | XXW | 1 | A | □ |
|---|---|---|---|---|---|---|
| Panel Mount | Product Type<br>T - Enclosed<br>L - L Frame**<br>B - Open Frame* | Output Voltage | Output Power | Phase Input<br>Single Phase | No PFC Series | Connector Type<br>A - Terminal Block<br>G - Front Face*<br>H - Harness* |

*Options
**Options for 35-100W

### PJ Open Frame Power Supply Model Numbering

| PJ – | XXV | XXW | □ | □ | A |
|---|---|---|---|---|---|
| PJ Series | Output Voltage | Output Power | Product Type<br>C - Enclosed<br>L - L Frame*<br>B - Open Frame* | Remote ON/OFF Function<br>N - No Remote ON/OFF<br>R - With Remote ON/OFF** | Delta Standard |

# Standard Products
## DIN Rail Power Supply

### CliQ

The CliQ DIN Rail Power Supply series from one of the world's leading power supply companies, Delta Electronics Group, offers state-of-the-art designs made to withstand harsh industrial environments in accordance to ATEX requirements. The rugged metal or plastic case is both shock and vibration resistant according to IEC 60068-2. The CliQ single phase and three phase power supply units include overvoltage, overload and over temperature protections for the output. Using a wide input voltage range design, Delta's CliQ DIN Rail Power Supply series is usable worldwide and features built-in Power Boost of 150% for 3 seconds. Such feature enables reserve power to be always available for reliable startup of loads with high inrush current current thus eliminating the need of a more expensive power supply unit at higher power rating.

### CliQ II

Delta's CliQ II DIN Rail Power Supply series offers state-of-the-art designs made to withstand harsh industrial environments. The rugged metal or plastic case is both shock and vibration resistant according to IEC 60068-2 and adhere to IP20 protection level. The CliQ II single phase and three phase power supply units also provide overvoltage, overload and over temperature protections for the output. Using a wide input voltage range design, Delta's CliQ II DIN Rail Power Supply series is usable worldwide and features built-in Power Boost of 150% for 5 seconds as compared to 3 seconds in the preceding CliQ series. Such feature enables reserve power to be always available for reliable startup of loads with high inrush current without the need of a more expensive power supply at higher power rating.

For more information or enquiries, please do not hesitate to contact your local Delta Electronics distributor or visit **www.DeltaPSU.com**.

### Typical Applications for CliQ and CliQ II

- Robotic arms
- Loom machines
- Air condition cleaning machines
- Hazardous locations
- Telecom POE applications
- CNC laser cutting machines
- Packing machines
- Building equipments
- Apparatus construction

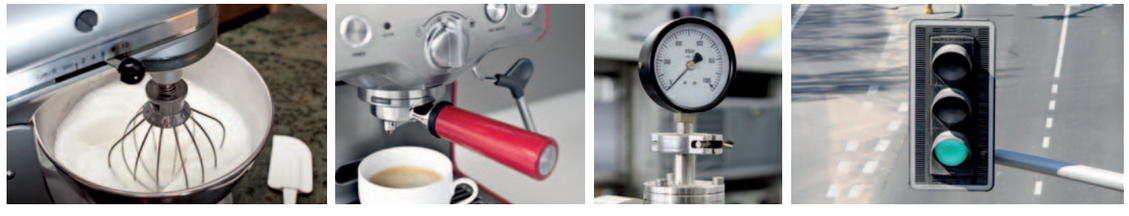


### Chrome

The Chrome DIN Rail Power Supply series is designed for use in compact cabinets which are widely used in home automations and the food and beverage industry. Current available specifications are with 24V output power for power ratings of 10W and 100W. Delta's Chrome DIN Rail Power Supply series offers double insulated input. This means that no Earth connection is required thus resulting in low leakage current. The Chrome series features universal AC input range and is certified to safety standard according to IEC/EN/UL 60950-1 for Information Technology Equipment (ITE) and UL 508 for Industrial Control Equipment (ICE). The series is also fully compliant with RoHS Directive 2011/65/EU for environmental protection. NEC Class 2 and Limited Power Source (LPS) approvals are available for selected models.

For more information or enquiries, please do not hesitate to contact your local Delta Electronics distributor or visit **www.DeltaPSU.com**.

### Typical Applications for Chrome



- Door bell systems
- Household applications
- Gate remote control systems
- Espresso machines
- Traffic signals
- Automatic feeders
- Blending machines
- Pump control / Irrigation
- Intelligent foot switch

# CliQ DIN Rail Power Supply
## 12V Output

## HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Power Boost of 150% for 3 seconds
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Multiple wire connections to terminals allowed
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

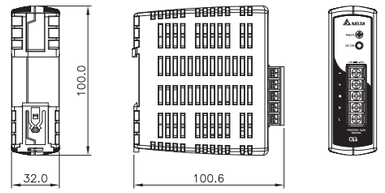
## GENERAL SPECIFICATIONS

| OUTPUT | DRP012V015W1A□ | DRP012V030W1A□ | DRP012V060W1A□ | DRP012V100W1A□ |
|---|---|---|---|---|
| Output Voltage | 12V | 12V | 12V | 12V |
| Output Voltage Range | 11-14V | 11-14V | 11-14V | 11-14V |
| Output Current | 1.25A | 2.50A | 5.00A | 8.33A |
| Output Power | 15W | 30W | 60W | 100W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | | |
| PARD (20MHz) | < 100mVpp | < 100mVpp | < 100mVpp | < 100mVpp |
| Hold-up Time | > 22ms @ 115Vac, > 110ms @ 230Vac | | | |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 85-264Vac (DC input range 120-375Vdc) | | | |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 0.37A @ 115Vac,<br>< 0.22A @ 230Vac | < 0.70A @ 115Vac,<br>< 0.42A @ 230Vac | < 1.35A @ 115Vac,<br>< 0.80A @ 230Vac | < 2.50A @ 115Vac,<br>< 1.50A @ 230Vac |
| Efficiency [1] at 100% Load | > 84.0% @ 115Vac,<br>> 83.0% @ 230Vac | > 85.0% @ 115Vac & 230Vac | > 86.0% @ 115Vac & 230Vac | > 85.5% @ 115Vac,<br>> 87.5% @ 230Vac |
| Max Inrush Current | < 30A @ 115Vac,<br>< 65A @ 230Vac | < 40A @ 115Vac,<br>< 80A @ 230Vac | < 50A @ 115Vac,<br>< 100A @ 230Vac | < 100A @ 115Vac,<br>No Damage @ 230Vac |
| Power Factor | Conform to EN 61000-3-2 | | | |
| Leakage Current | < 1mA @ 240Vac | | | |
| **MECHANICAL** | | | | |
| Case Cover | Plastic | Plastic | Aluminium | Aluminium |
| Dimensions (L x W x D) | 100 x 32 x 100.6 mm | | 121 x 32 x 120 mm | 121 x 50 x 118.7 mm |
| Unit Weight | 0.18 kg | 0.20 kg | 0.33 kg | 0.64 kg |
| Cooling System | Convection | | | |
| Input Terminal | 5 Pins (Rated 300V/15A) | | 3 Pins (Rated 300V/20A) | |
| Output Terminal | 5 Pins (Rated 300V/15A) | | 2 Pins (Rated 300V/20A) | |
| Input / Output Wire | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 18-14 |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -20°C to +80°C | | | |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (2.5% / °C); > 70°C (5% / °C) | | | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 2,000m | | | |

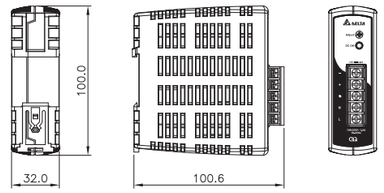
Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

## MECHANICAL DRAWINGS

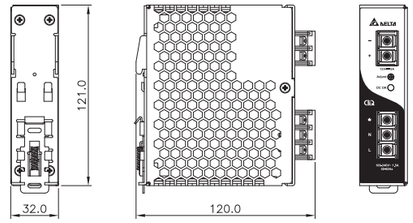
**DRP012V015W1A□**



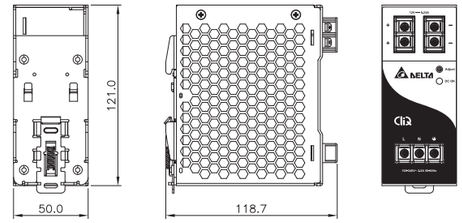

**DRP012V030W1A□**




**DRP012V060W1A□**




**DRP012V100W1A□**




*Units in mm

# CliQ DIN Rail Power Supply
## 24V Output

CliQ™

### HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Power Boost of 150% for 3 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant Aluminium chassis
- With SEMI F47
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Multiple wire connections to terminals allowed
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

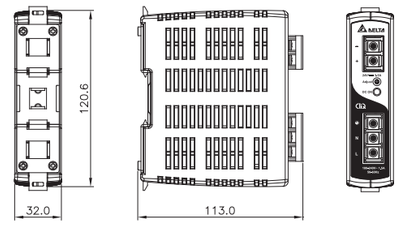
| OUTPUT | DRP024V060W1AZ | DRP024V060W1A□ | DRP024V120W1A□ | DRP024V240W1A□ | DRP024V480W1A□ |
|---|---|---|---|---|---|
| Output Voltage | 24V | 24V | 24V | 24V | 24V |
| Output Voltage Range | 22-28V | 22-28V | 22-28V | 22-28V | 22-28V |
| Output Current | 2.50A | 2.50A | 5.00A | 10.0A | 20.0A |
| Output Power | 60W | 60W | 120W | 240W | 480W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | | | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | | | |
| PARD (20MHz) | < 240mVpp | < 240mVpp | < 240mVpp | < 240mVpp | < 240mVpp |
| Hold-up Time | > 20ms @ 115Vac, > 125ms @ 230Vac | | > 35ms @ 115Vac, > 70ms @ 230Vac | > 20ms @ 115Vac & 230Vac | |
| **INPUT** | | | | | |
| Phase Input | Single Phase | | | | |
| Input Voltage Range | 85-264Vac (DC input range 120-375Vdc) | | | | |
| Input Frequency | 47-63Hz | | | | |
| Input Current | < 1.10A @ 115Vac, < 0.70A @ 230Vac | | < 1.40A @ 115Vac, < 0.80A @ 230Vac | < 2.90A @ 115Vac, < 1.50A @ 230Vac | < 5.70A @ 115Vac, < 2.80A @ 230Vac |
| Efficiency [1] at 100% Load | > 86.0% @ 115Vac, > 87.0% @ 230Vac | | | > 89.0% @ 115Vac, > 91.0% @ 230Vac | > 85.0% @ 115Vac, > 88.0% @ 230Vac |
| Max Inrush Current | < 40A @ 115Vac, < 80A @ 230Vac | | < 80A @ 115Vac, No Damage @ 230Vac | No Damage & $I^2t$ rating at all I/P device shall not exceed their rating | |
| Power Factor | Conform to EN 61000-3-2 | | > 0.98 @ 115Vac, > 0.87 @ 230Vac | > 0.96 @ 115Vac, > 0.90 @ 230Vac | > 0.97 @ 115Vac, > 0.95 @ 230Vac |
| Leakage Current | < 1mA @ 240Vac | | | | |
| **MECHANICAL** | | | | | |
| Case Cover | Plastic | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 120.6 x 32 x 113 mm | 121 x 32 x 120 mm | 121 x 50 x 118.7 mm | 121 x 85 x 118.5 mm | 121 x 160 x 118.5 mm |
| Unit Weight | 0.33 kg | 0.37 kg | 0.54 kg | 1.04 kg | 1.80 kg |
| Cooling System | Convection | | | | |
| Input Terminal | 3 Pins (Rated 300V/20A) | | | | |
| Output Terminal | 2 Pins (Rated 300V/20A) | | | | 4 Pins (Rated 300V/20A) |
| Input / Output Wire | AWG 22-14 | AWG 22-14 | AWG 22-14 | AWG 22-14 | I/P: AWG 16-14, O/P: AWG 12-10 |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs | > 300,000 hrs | > 300,000 hrs |
| **ENVIRONMENT** | | | | | |
| Operating Temperature | -20°C to +80°C | | | | |
| Storage Temperature | -25°C to +85°C | | | | |
| Power De-rating | < 0°C to -20°C (1% / °C); > 50°C (2.5% / °C); > 70°C (4% / °C) | < 0°C to -20°C (1% / °C); > 50°C (2.5% / °C) | > 50°C (2.5% / °C) | > 50°C (2.5% / °C); > 70°C (4% / °C) | > 50°C (2.5% / °C) |
| Operating Humidity | < 95% RH (Non-Condensing) | | | | |
| Operating Altitude | 2,000m | | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

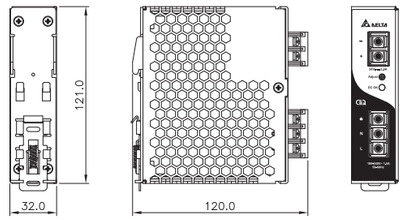


### MECHANICAL DRAWINGS

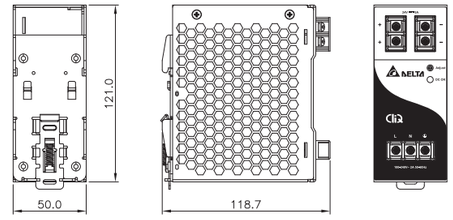
**DRP024V060W1AZ**



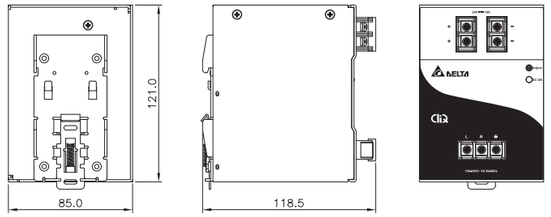

**DRP024V060W1A□**



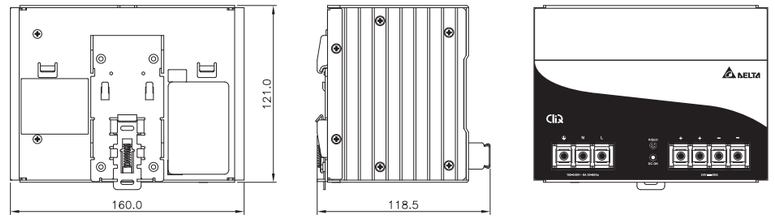

**DRP024V120W1A□**




**DRP024V240W1A□**




**DRP024V480W1A□**




*Units in mm

# CliQ DIN Rail Power Supply
## 24V Output

## HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Power Boost of 150% for 3 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant Aluminium chassis
- With SEMI F47
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Multiple wire connections to terminals allowed
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

*End-of-Life: December 31, 2013

## GENERAL SPECIFICATIONS

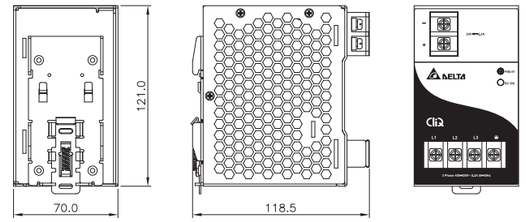
| OUTPUT | DRP024V060W3AA | DRP024V120W3AA | DRP024V240W3AA | DRP024V480W3AA |
|---|---|---|---|---|
| Output Voltage | 24V | 24V | 24V | 24V |
| Output Voltage Range | 22-28V | 22-28V | 22-28V | 22-28V |
| Output Current | 2.50A | 5.00A | 10.0A | 20.0A |
| Output Power | 60W | 120W | 240W | 480W |
| Line Regulation | < 0.5% typ. (@ 320-575Vac input, 100% load) | | | |
| Load Regulation | < 1% typ. (@ 320-575Vac input, 0-100% load) | | | |
| PARD (20MHz) | < 240mVpp | < 240mVpp | < 240mVpp | < 240mVpp |
| Hold-up Time | > 30ms @ 3 x 400Vac,<br>> 60ms @ 3 x 500Vac | > 35ms @ 3 x 400Vac,<br>> 70ms @ 3 x 500Vac | > 35ms @ 3 x 400Vac,<br>> 60ms @ 3 x 500Vac | > 25ms @ 3 x 400Vac,<br>> 50ms @ 3 x 500Vac |
| **INPUT** | | | | |
| Phase Input | Three Phase | | | |
| Input Voltage Range | 3 x 320-575Vac or 2 x 360-575Vac (DC input range 450-800Vdc) | | | 3 x 320-575Vac<br>(DC input range 450-800Vdc) |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 0.30A / Phase @ 400Vac,<br>< 0.20A / Phase @ 500Vac | < 0.50A / Phase @ 400Vac,<br>< 0.40A / Phase @ 500Vac | < 0.80A / Phase @ 400Vac,<br>< 0.70A / Phase @ 500Vac | < 1.60A / Phase @ 400Vac,<br>< 1.10A / Phase @ 500Vac |
| Efficiency [1] at 100% Load | > 86.0% @ 3 x 400Vac & 500Vac | | > 87.0% @ 3 x 400Vac & 500Vac | > 88.0% @ 3 x 400Vac,<br>> 89.0% @ 3 x 500Vac |
| Max Inrush Current | < 30A @ 3 x 400Vac & 500Vac | | < 40A @ 3 x 400Vac & 500Vac | < 50A @ 3 x 400Vac & 500Vac |
| Power Factor | Conform to EN 61000-3-2 | | | |
| Leakage Current | < 3.5mA @ 500Vac | | | |
| **MECHANICAL** | | | | |
| Case Cover | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 121 x 70 x 118.5 mm | 121 x 70 x 118.4 mm | 121 x 85 x 120.5 mm | 121 x 160 x 118.5 mm |
| Unit Weight | 0.56 kg | 0.72 kg | 0.99 kg | 1.71 kg |
| Cooling System | Convection | | | |
| Input Terminal | M4 x 4 Pins (Rated 600V/20A) | | | |
| Output Terminal | M4 x 2 Pins (Rated 600V/20A) | | | |
| Input / Output Wire | AWG 22-14 | AWG 22-14 | AWG 22-14 | I/P: AWG 16-14,<br>O/P: AWG 12-10 |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs | > 300,000 hrs | > 300,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -20°C to +80°C | | | |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (2.5% / °C) | | > 50°C (2.5% / °C);<br>> 70°C (4% / °C) | > 50°C (2.5% / °C) |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 2,000m | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 400Vac & 500Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

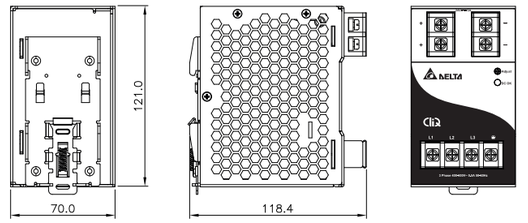


## MECHANICAL DRAWINGS

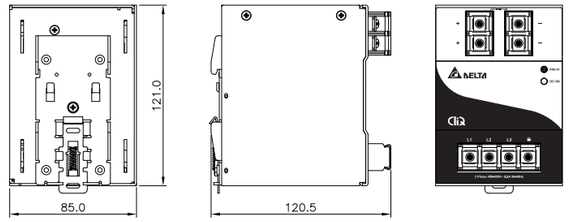
### DRP024V060W3AA



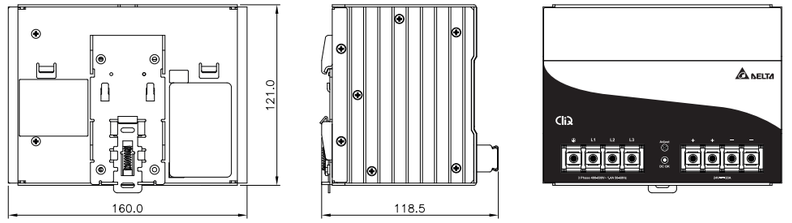

### DRP024V120W3AA




### DRP024V240W3AA




### DRP024V480W3AA




*Units in mm

# CliQ II DIN Rail Power Supply
## 24V Output

## HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- High efficiency > 90.0% @ 230Vac
- Power Boost of 150% for 5 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

## GENERAL SPECIFICATIONS

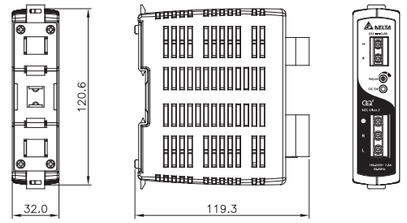
| OUTPUT | DRP024V060W1N□ | DRP024V060W1B□ | DRP024V120W1B□ | DRP024V240W1B□ | DRP024V480W1B□ |
|---|---|---|---|---|---|
| Output Voltage | 24V | 24V | 24V | 24V | 24V |
| Output Voltage Range | 24-28V | 24-28V | 24-28V | 24-28V | 24-28V |
| Output Current | 2.50A | 2.50A | 5.00A | 10.0A | 20.0A |
| Output Power | 60W | 60W | 120W | 240W | 480W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | | | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | | | |
| PARD (20MHz) | < 240mVpp | < 150mVpp | < 150mVpp | < 150mVpp | < 150mVpp |
| Hold-up Time | > 20ms @ 115Vac, > 125ms @ 230Vac | | > 20ms @ 115Vac, > 115ms @ 230Vac | > 20ms @ 115Vac & 230Vac | |
| **INPUT** | | | | | |
| Phase Input | Single Phase | | | | |
| Input Voltage Range | 85-264Vac (DC input range 120-375Vdc) | | | | |
| Input Frequency | 47-63Hz | | | | |
| Input Current | < 1.50A @ 115Vac, < 0.80A @ 230Vac | < 1.40A @ 115Vac, < 0.80A @ 230Vac | < 2.20A @ 115Vac, < 1.10A @ 230Vac | < 2.50A @ 115Vac, < 1.30A @ 230Vac | < 5.00A @ 115Vac, < 3.00A @ 230Vac |
| Efficiency [1] at 100% Load | > 88.0% @ 115Vac, > 89.0% @ 230Vac | > 90.0% @ 115Vac & 230Vac | > 89.0% @ 115Vac, > 90.0% @ 230Vac | > 90.0% @ 115Vac, > 92.0% @ 230Vac | > 91.0% @ 115Vac, > 92.0% @ 230Vac |
| Max Inrush Current | < 40A @ 115Vac, < 80A @ 230Vac | < 20A @ 115Vac, < 35A @ 230Vac | < 35A @ 115Vac & 230Vac | | |
| Power Factor | Conform to EN 61000-3-2 | | | > 0.96 @ 115Vac, > 0.90 @ 230Vac | > 0.96 @ 115Vac, > 0.89 @ 230Vac |
| Leakage Current | < 1mA @ 240Vac | | | | < 3mA @ 240Vac |
| **MECHANICAL** | | | | | |
| Case Cover | Plastic | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 120.6 x 32 x 119.3 mm | 121 x 32 x 125 mm | 121 x 50 x 123.1 mm | 121 x 85 x 124.1 mm | 121 x 144 x 118.6 mm |
| Unit Weight | 0.33 kg | 0.37 kg | 0.72 kg | 1.10 kg | 1.37 kg |
| Cooling System | Convection | | | | |
| Input Terminal | 3 Pins (Rated 300V/30A) | Pluggable Connector 3 Pins (Rated 300V/15A) | | | 3 Pins (Rated 300V/30A) |
| Output Terminal | 2 Pins (Rated 300V/30A) | Pluggable Connector 2 Pins (Rated 300V/15A) | Pluggable Connector 4 Pins (Rated 300V/15A) | | 4 Pins (Rated 300V/30A) |
| Input / Output Wire | AWG 22-10 | AWG 22-12 | AWG 20-12 | AWG 16-14 | I/P: AWG 18-10, O/P: AWG 12-10 |
| MTBF [2] | > 800,000 hrs | > 800,000 hrs | > 800,000 hrs | > 500,000 hrs | > 500,000 hrs |
| **ENVIRONMENT** | | | | | |
| Operating Temperature | -25°C to +80°C | | | | -25°C to +75°C |
| Storage Temperature | -25°C to +85°C | | | | |
| Power De-rating | > 50°C (2.5% / °C); > 70°C (4% / °C) | > 50°C (2.5% / °C) | | | > 50°C (2.5% / °C); > 70°C (5% / °C) |
| Operating Humidity | < 95% RH (Non-Condensing) | | | | |
| Operating Altitude | 2,500m | | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

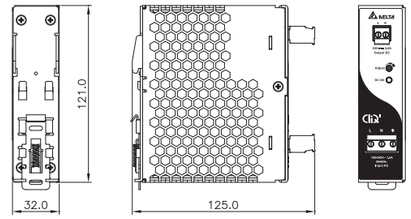


## MECHANICAL DRAWINGS

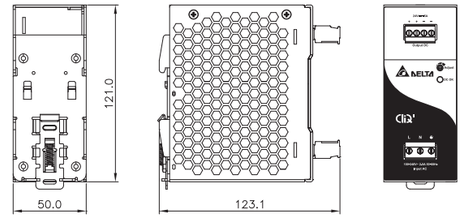
**DRP024V060W1N□**



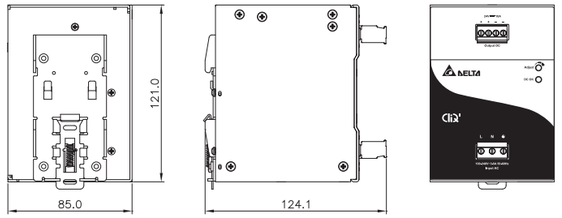

**DRP024V060W1B□**



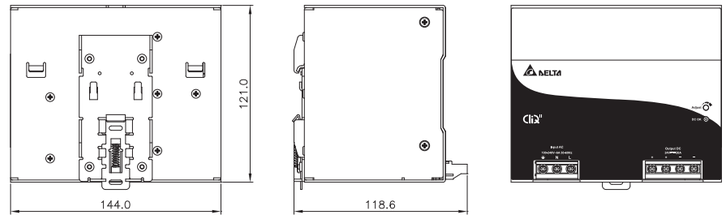

**DRP024V120W1B□**




**DRP024V240W1B□**




**DRP024V480W1B□**




*Units in mm

# CliQ II DIN Rail Power Supply
## 24V Output

## HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Power Boost of 150% for 5 seconds (480W: 200% for 2 seconds)
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

## GENERAL SPECIFICATIONS

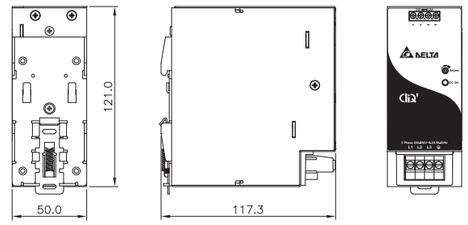
| | NEW | NEW | NEW | NEW | NEW |
|---|---|---|---|---|---|
| **OUTPUT** | **DRP024V060W3B□** | **DRP024V120W3B□** | **DRP024V240W3B□** | **DRP024V480W3B□** | **DRP024V960W3B□** |
| Output Voltage | 24V | 24V | 24V | 24V | 24V |
| Output Voltage Range | 24-28V | 24-28V | 24-28V | 24-28V | 24-28V |
| Output Current | 2.5A | 5.00A | 10.0A | 20.0A | 40.0A |
| Output Power | 60W | 120W | 240W | 480W | 960W |
| Line Regulation | < 0.5% typ. (@ 320-600Vac input, 100% load) | | | | |
| Load Regulation | < 1% typ. (@ 320-600Vac input, 0-100% load) | | | | |
| PARD (20MHz) | < 150mVpp | < 150mVpp | < 150mVpp | < 150mVpp | < 240mVpp |
| Hold-up Time | > 20ms @ 3 x 400Vac, > 40ms @ 3 x 500Vac | | | > 20ms @ 3 x 400Vac & 500Vac | |
| **INPUT** | | | | | |
| Phase Input | Three Phase | | | | |
| Input Voltage Range | 3 x 320-600Vac or 2 x 360-600Vac (DC input range 450-800Vdc) | | | | |
| Input Frequency | 47-63Hz | | | | |
| Input Current | < 0.30A/Phase @ 400Vac, < 0.25A/Phase @ 500Vac | < 0.50A/Phase @ 400Vac, < 0.40A/Phase @ 500Vac | < 0.75A/Phase @ 400Vac, < 0.65A/Phase @ 500Vac | < 0.95A/Phase @ 400Vac, < 0.75A/Phase @ 500Vac | < 1.70A/Phase @ 400Vac, < 1.40A/Phase @ 500Vac |
| Efficiency [1] at 100% Load | > 86.0% @ 3 x 400Vac & 500Vac | > 87.0% @ 3 x 400Vac, > 86.0% @ 3 x 500Vac | > 90.0% @ 3 x 400Vac & 500Vac | | > 91.0% @ 3 x 400Vac & 500Vac |
| Max Inrush Current | < 30A @ 3 x 400Vac, < 55A @ 3 X 500Vac | < 30A @ 3 x 400Vac, < 60A @ 3 X 500Vac | < 40A @ 3 x 400Vac, < 60A @ 3 X 500Vac | < 50A @ 3 x 400Vac, < 70A @ 3 X 500Vac | < 60A @ 3 x 400Vac & 500Vac |
| Power Factor | Conform to EN 61000-3-2 | | | > 0.95 @ 3 x 400Vac, > 0.92 @ 3 x 500Vac | |
| Leakage Current | < 3.5mA @ 500Vac | | | | |
| **MECHANICAL** | | | | | |
| Case Cover | Aluminium | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 121 x 50 x 117.3 mm | 121 x 50 x 117.3 mm | 121 x 70 x 117.3 mm | 121 x 140 x 117.3 mm | 121 x 255 x 117.3 mm |
| Unit Weight | 0.66 kg | 0.66 kg | 0.89 kg | 1.35 kg | 2.60 kg |
| Cooling System | Convection | | | | |
| Input Terminal | 4 Pins (Rated 600V/35A) | | | | |
| Output Terminal | 4 Pins (Rated 300V/28A) | | | 4 Pins (Rated 300V/30A) | 6 Pins (Rated 300V/30A) |
| Input / Output Wire | AWG 18-12 | AWG 18-12 | I/P: AWG 18-12, O/P: AWG 16-12 | I/P: AWG 18-8, O/P: AWG 12-10 | I/P: AWG 18-8, O/P: AWG 12-10 |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs | > 300,000 hrs | > 300,000 hrs | > 300,000 hrs |
| **ENVIRONMENT** | | | | | |
| Operating Temperature | -25°C to +80°C | | | | |
| Storage Temperature | -25°C to +85°C | | | | -40°C to +85°C |
| Power De-rating | > 50°C (2.5% / °C); > 70°C (5% / °C) | | | | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | | |
| Operating Altitude | 2,000m (for industrial application); 2,500m (for ITE application) | | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 400Vac & 500Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

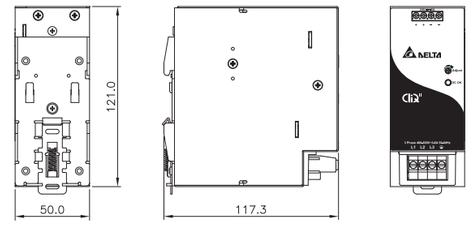


## MECHANICAL DRAWINGS

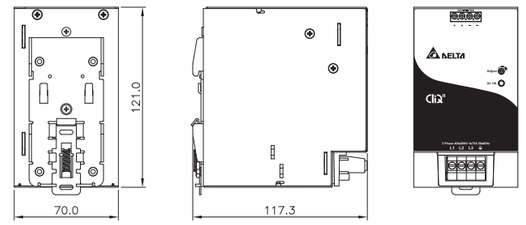
**DRP024V060W3B□**



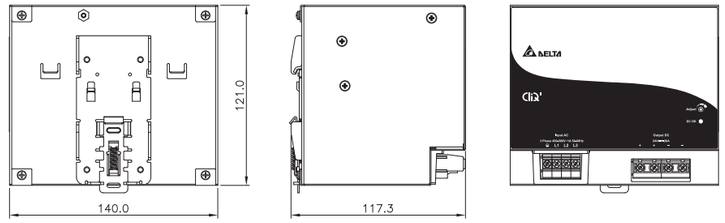

**DRP024V120W3B□**



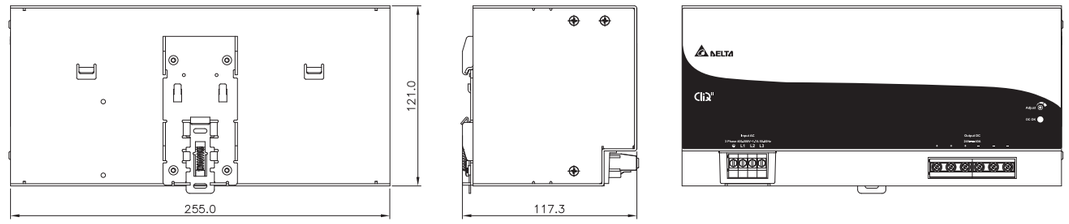

**DRP024V240W3B□**




**DRP024V480W3B□**




**DRP024V960W3B□**




*Units in mm

# CliQ II DIN Rail Power Supply
## 48V Output

## HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- High efficiency > 90.0% @ 230Vac
- Power Boost of 150% for 5 seconds
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Extreme low temperature cold start at -40°C
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

## GENERAL SPECIFICATIONS

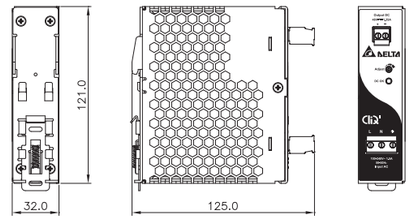
| | | | | NEW |
|---|---|---|---|---|
| **OUTPUT** | **DRP048V060W1B□** | **DRP048V120W1B□** | **DRP048V240W1B□** | **DRP048V480W1B□** |
| Output Voltage | 48V | 48V | 48V | 48V |
| Output Voltage Range | 48-56V | 48-56V | 48-56V | 48-56V |
| Output Current | 1.25A | 2.50A | 5.00A | 10.0A |
| Output Power | 60W | 120W | 240W | 480W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | | |
| PARD (20MHz) | < 200mVpp | < 200mVpp | < 200mVpp | < 200mVpp |
| Hold-up Time | > 20ms @ 115Vac, > 125ms @ 230Vac | > 20ms @ 115Vac, > 50ms @ 230Vac | > 20ms @ 115Vac & 230Vac | |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 85-264Vac (DC input range 120-375Vdc) | | | |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 1.40A @ 115Vac, < 0.80A @ 230Vac | < 2.20A @ 115Vac, < 1.10A @ 230Vac | < 2.50A @ 115Vac, < 1.30A @ 230Vac | < 5.00A @ 115Vac, < 3.00A @ 230Vac |
| Efficiency [1] at 100% Load | > 91.0% @ 115Vac, > 92.0% @ 230Vac | > 90.0% @ 115Vac & 230Vac | > 90.0% @ 115Vac, > 92.0% @ 230Vac | > 91.0% @ 115Vac, > 93.0% @ 230Vac |
| Max Inrush Current | < 20A @ 115Vac, < 35A @ 230Vac | < 35A @ 115Vac & 230Vac | | |
| Power Factor | Conform to EN 61000-3-2 | > 0.99 @ 115Vac, > 0.93 @ 230Vac | > 0.96 @ 115Vac, > 0.90 @ 230Vac | |
| Leakage Current | < 1mA @ 240Vac | | | < 3mA @ 240Vac |
| **MECHANICAL** | | | | |
| Case Cover | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 121 x 32 x 125 mm | 121 x 50 x 123.1 mm | 121 x 85 x 124.1 mm | 121 x 144 x 118.6 mm |
| Unit Weight | 0.38 kg | 0.72 kg | 0.96 kg | 1.37 kg |
| Cooling System | Convection | | | |
| Input Terminal | Pluggable Connector 3 Pins (Rated 300V/15A) | | | 3 Pins (Rated 300V/30A) |
| Output Terminal | Pluggable Connector 2 Pins (Rated 300V/15A) | Pluggable Connector 4 Pins (Rated 300V/15A) | | 4 Pins (Rated 300V/30A) |
| Input / Output Wire | AWG 22-12 | AWG 20-12 | AWG 20-12 | I/P: AWG 18-10, O/P: AWG 16-10 |
| MTBF [2] | > 800,000 hrs | > 800,000 hrs | > 500,000 hrs | > 500,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -25°C to +80°C | | | -25°C to +75°C |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | > 50°C (2.5% / °C); > 70°C (5% / °C) |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 2,500m | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

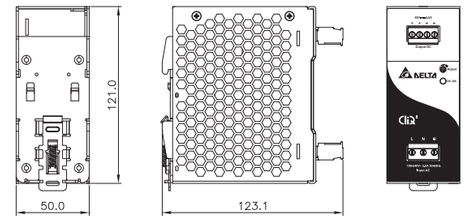


## MECHANICAL DRAWINGS

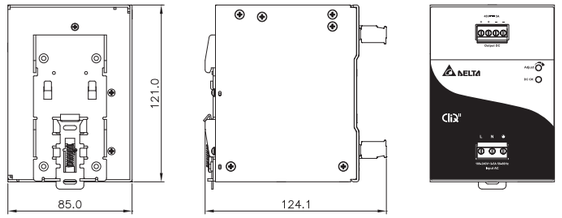
**DRP048V060W1B□**



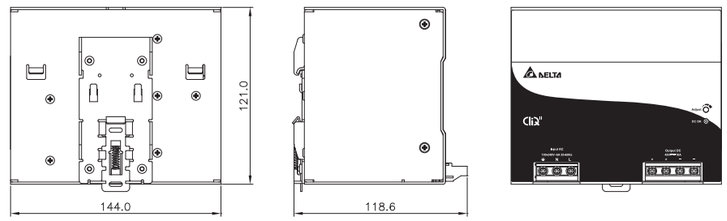

**DRP048V120W1B□**




**DRP048V240W1B□**




**DRP048V480W1B□**




*Units in mm

# Chrome DIN Rail Power Supply
## 24V Output

CHROME

### HIGHLIGHTS & FEATURES

- Class II double insulation (No earth connection is required)
- Universal AC input voltage without power de-rating
- Can be installed in compact cabinets
- NEC Class 2 power supply and Limited Power Source (LPS) approvals for selected models
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and UL 508 (Industrial standard)

### GENERAL SPECIFICATIONS

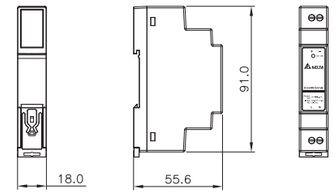
| | NEW | NEW |
|---|---|---|
| **OUTPUT** | **DRC-24V10W1AZ** | **DRC-24V100W1AZ** |
| Output Voltage | 24V | 24V |
| Output Voltage Range | 24V | 20-24.48V |
| Output Current | 0.42A | 3.80A |
| Output Power | 10W | 100W |
| Line Regulation | < 1% typ. (@ 90-264Vac, 100% load) | |
| Load Regulation | < 2% typ. (@ 90-264Vac, 100% load) | |
| PARD (20MHz) | < 150mVpp | < 150mVpp |
| Hold-up Time | > 10ms @ 115Vac, > 30ms @ 230Vac | |
| **INPUT** | | |
| Phase Input | Single Phase | |
| Input Voltage Range | 90-264Vac (DC input range 125-375Vdc) | |
| Input Frequency | 47-63Hz | |
| Input Current | < 0.30A @ 115Vac,<br>< 0.20A @ 230Vac | < 2.20A @ 115Vac,<br>< 1.00A @ 230Vac |
| Efficiency [1] at 100% Load | > 80.0% @ 115Vac & 230Vac | > 85.0% @ 115Vac,<br>> 87.0% @ 230Vac |
| Max Inrush Current | < 15A @ 115Vac,<br>< 30A @ 230Vac | < 30A @ 115Vac,<br>< 60A @ 230Vac |
| Power Factor | Conform to EN 61000-3-2, Class A | |
| Leakage Current | < 0.25mA @ 240Vac | |
| **MECHANICAL** | | |
| Case Cover | Plastic | Plastic |
| Dimensions (L x W x D) | 91 x 18 x 55.6 mm | 91 x 89.9 x 55.6 mm |
| Unit Weight | 0.065 kg | 0.35 kg |
| Cooling System | Convection | |
| Input Terminal | 2 Pins (Rated 300V/16A) | 2 Pins (Rated 300V/25A) |
| Output Terminal | 2 Pins (Rated 300V/16A) | 4 Pins (Rated 300V/25A) |
| Input / Output Wire | AWG 26-12 | AWG 24-12 |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs |
| **ENVIRONMENT** | | |
| Operating Temperature | -25°C to +71°C | |
| Storage Temperature | -25°C to +85°C | |
| Power De-rating | > 55°C (2.5% / °C) | |
| Operating Humidity | < 95% RH (Non-Condensing) | |
| Operating Altitude | 2,000m | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

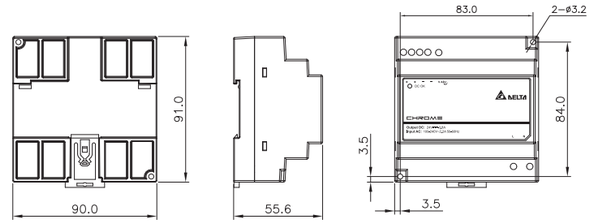


### MECHANICAL DRAWINGS

**DRC-24V10W1AZ**




**DRC-24V100W1AZ**




*Units in mm

# CliQ II DIN Rail Modules
## Redundancy Modules

### HIGHLIGHTS & FEATURES

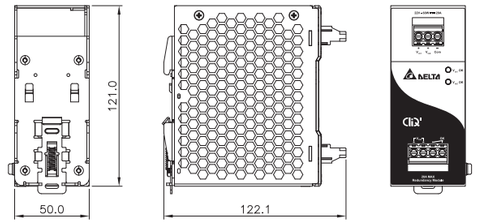
- Wide input and output range of 22-60Vdc
- Very wide operating temperature from -40°C to +80°C
- Built-in 2 channel DC OK signal and alarm relay contact
- Support N+1 Redundancy connection
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2
- IP20 Certified

### GENERAL SPECIFICATIONS

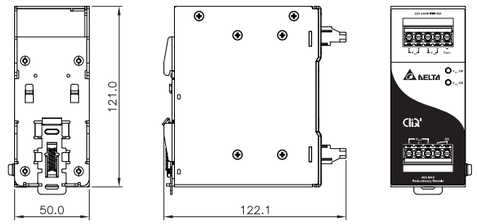
| OUTPUT | DRR-20□ | DRR-40□ |
|---|---|---|
| Output Current | Normal mode = 0-20Amps; Short Circuit or Overload = 25Amps max | Normal mode = 0-40Amps; Short Circuit or Overload = 50Amps max |
| Voltage Drop ($V_{in}$ - $V_{out}$) | Typical 0.65V | |
| **INPUT** | | |
| Input Voltage Range | 22-60Vdc | |
| Input Current | (1+1 Redundancy) = Nom. 2 x 12.5Amps (N+1 Redundancy) = Nom. 2 x 10Amps (Single use) = Nom. 20Amps | (1+1 Redundancy) = Nom. 2 x 25Amps (N+1 Redundancy) = Nom. 2 x 20Amps (Single use) = Nom. 40Amps |
| **MECHANICAL** | | |
| Case Cover | Aluminium | |
| Dimensions (L x W x D) | 121 x 50 x 122.1 mm | |
| Unit Weight | 0.38 kg | 0.52 kg |
| Cooling System | Convection | |
| LED Indicators | Green LED DC OK: $V_{in}$1 and $V_{in}$2 | |
| MTBF [1)] | > 800,000 hrs | > 800,000 hrs |
| **ENVIRONMENT** | | |
| Operating Temperature | -40°C to +80°C | |
| Storage Temperature | -40°C to +85°C | |
| Power De-rating | > 50°C (2.5% / °C) | |
| Operating Humidity | < 95% RH (Non-Condensing) | |
| Operating Altitude | 2,500m | |

### MECHANICAL DRAWINGS

**DRR-20□**




**DRR-40□**




*Units in mm

Notes
1) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted



# Buffer Module

### HIGHLIGHTS & FEATURES

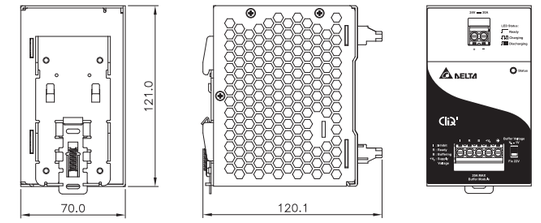
- Minimum buffering time of 250ms @ 24V/20A
- Flexible operating buffering voltage modes:
  - Fixed mode at 22Vdc
  - Dynamic mode for $V_{in}$-1V
- Charging time of < 30 seconds
- Support parallel connection to extend buffering time
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Hazardous Locations approval to ATEX and Class I, Div 2

### GENERAL SPECIFICATIONS

| OUTPUT | DRB-24V020AB□ |
|---|---|
| Output Voltage | 24Vdc typ. (Depends on $V_{in}$) |
| Output Voltage Range | 22-28V (Switch = "Fix 22V" buffering starts if terminal voltage falls below 22V) (Switch = "Vin - 1V" buffering starts if terminal voltage is decreased by more than 1V) |
| Maximum Output Voltage | 35Vdc |
| Output Current | 20.0A |
| Maximum Signal Output | 35V / 10mA |
| PARD (20MHz) | < 200mVpp |
| Buffer Time | > 250ms @ 24V/20A load, > 5sec @ 24V/1A load |
| **INPUT** | |
| Input Voltage Range | 22.8-28.8Vdc |
| Maximum Input Voltage | 35Vdc |
| Input Current | Charging Mode: < 0.6A Discharging Mode: < 20A |
| Input Power | 2.5W average (Standby Mode) |
| Max Inrush Current | < 20A |
| Charging Time | < 30 sec |
| Polarity Protection | Yes |
| **MECHANICAL** | |
| Case Cover | Aluminium |
| Dimensions (L x W x D) | 121 x 70 x 120.1 mm |
| Unit Weight | 0.76kg |
| Cooling System | Convection |
| LED Indicators | Green LED Off = Unit is discharged or $V_{in}$ is < 22Vdc<br>Green LED On = Unit is fully charged<br>Green LED Blinking Slowly (1Hz) = Unit is charging<br>Green LED Blinking Quickly (10Hz) = Unit is discharging |
| Input / Output Terminal | M3 x 2 Pins (Rated 300V/30A) |
| Signal Terminal | M3 x 5 Pins (Rated 300V/30A) |
| Input / Output Wire | AWG 12-10 |
| Signal Wire | AWG 24-10 |
| MTBF [1)] | > 800,000 hrs |
| **SAFETY / ENVIRONMENT** | |
| Operating Temperature | -25°C to +75°C |
| Storage Temperature | -25°C to +85°C |
| Power De-rating | > 70°C (5% / °C) |
| Operating Humidity | < 95% RH (Non-Condensing) |
| Operating Altitude | 2,500m |

### MECHANICAL DRAWINGS

**DRB-24V020AB□**




*Units in mm

Notes
1) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

# Standard Products
## Panel Mount Power Supply

### PMC

The PMC Panel Mount Power Supply series offers nominal output voltages of 5V, 12V and 24V. These single phase power supply units have wide operating temperature range from -10°C to +70°C and a highly dependable minimum hold-up time. The lightweight design is able to withstand harsh industrial environments and come with universal AC input encased in a full corrosion resistant Aluminium casing except for the very compact 5V 15W specification. In addition to overvoltage, over temperature and overcurrent protections, the highly reliable PMC series does not need to have output power de-rating. Such property allows a connected system to start up at low input voltage. All PMC power supplies conform to EN 61000-3-2 standards and are fully compliant with RoHS Directive 2011/65/EU for environmental protection.

For more information or enquiries, please do not hesitate to contact your local Delta Electronics distributor or visit **www.DeltaPSU.com**.

### PMT

The PMT Panel Mount Power Supply series offers nominal output voltages of 12V and 24V with a wide operating temperature range from -10°C to +70°C and can withstand shock and vibration according to IEC 60068-2. In addition to features like overvoltage and overcurrent protections, Delta's PMT series of panel mount power supply units can meet the price demand of cost competitive markets without compromising the quality of the components and product specifications. This is evident from its expected life time of 10 years and ability to operate without output power de-rating from 90Vac to 264Vac. This versatile series has three different connector options (Terminal Block, Front Face and Harness) and can also be converted into L Frame (PML) or Open Frame (PMB) platform to satisfy different application needs.

For more information or enquiries, please do not hesitate to contact your local Delta Electronics distributor or visit **www.DeltaPSU.com**.

### Typical Applications for PMC and PMT


- Tool building
- Elevator systems
- Fire alarm and security systems
- Emergency lights
- Fitness equipments
- Point of Sale (POS)
- Escalator sytems
- LED lighting displays
- Bank commercial equipments

### Connector Options for PMC and PMT

- IP20 Connector

- Front Face Connector

- Harness Connector (Options for PMT only)

# PMC Panel Mount Power Supply
## 5V Output

# PMC

### HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55022, Class B

### GENERAL SPECIFICATIONS

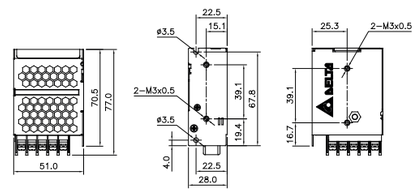
| OUTPUT | PMC-05V015W1AA | PMC-05V035W1AA | PMC-05V050W1AA |
|---|---|---|---|
| Output Voltage | 5V | 5V | 5V |
| Output Voltage Range | 4.75-5.50V | 4.75-5.50V | 4.75-5.50V |
| Output Current | 3.00A | 7.00A | 10.0A |
| Output Power | 15W | 35W | 50W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | |
| PARD (20MHz) | < 70mVpp | < 70mVpp | < 70mVpp |
| Hold-up Time | > 15ms @ 115Vac, > 80ms @ 230Vac | | |
| **INPUT** | | | |
| Phase Input | Single Phase | | |
| Input Voltage Range | 85-264Vac (DC input range 125-375Vdc) | | |
| Input Frequency | 47-63Hz | | |
| Input Current | < 0.32A @ 115Vac,<br>< 0.22A @ 230Vac | < 0.90A @ 115Vac,<br>< 0.80A @ 230Vac | < 1.10A @ 115Vac,<br>< 0.70A @ 230Vac |
| Efficiency [1] at 100% Load | > 79.0% @ 115Vac & 230Vac | > 78.0% @ 115Vac,<br>> 79.0% @ 230Vac | > 79.0% @ 115Vac & 230Vac |
| Max Inrush Current | < 30A @ 115Vac,<br>< 65A @ 230Vac | < 30A @ 115Vac,<br>< 60A @ 230Vac | < 30A @ 115Vac,<br>< 65A @ 230Vac |
| Power Factor | Conform to EN 61000-3-2 | | |
| Leakage Current | < 1mA @ 240Vac | | |
| **MECHANICAL** | | | |
| Case Cover / Chassis | SECC Steel | Aluminium | Aluminium |
| Dimensions (L x W x D) | 77 x 51 x 28 mm | 98 x 97 x 38 mm | 128 x 97 x 38 mm |
| Unit Weight | 0.16 kg | 0.18 kg | 0.26 kg |
| Cooling System | Convection | | |
| Input / Output Terminal | M3.5 x 5 Pins (Rated 300V/15A) | | |
| Input / Output Wire | AWG 22-16 | AWG 18-14 | I/P: AWG 18-14, O/P: AWG 16-14 |
| MTBF [2] | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs |
| **ENVIRONMENT** | | | |
| Operating Temperature | -10°C to +70°C | | |
| Storage Temperature | -25°C to +85°C | | |
| Power De-rating | > 60°C (2.5% / °C) | > 50°C (2.5% / °C) | |
| Operating Humidity | < 95% RH (Non-Condensing) | | |
| Operating Altitude | 3,000m | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

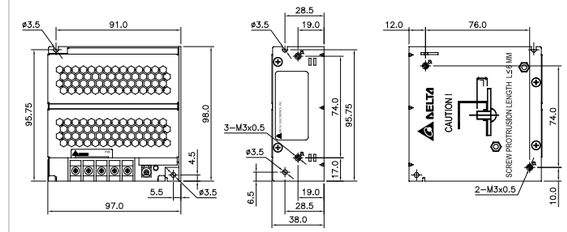


### MECHANICAL DRAWINGS

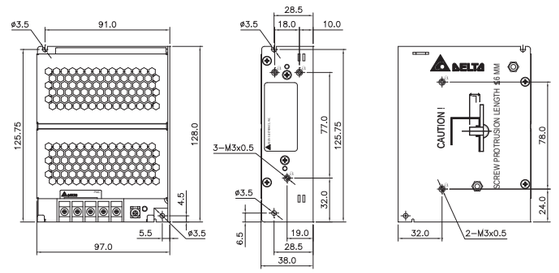
**PMC-05V015W1AA**




**PMC-05V035W1AA**




**PMC-05V050W1AA**




*Units in mm

# PMC Panel Mount Power Supply
## 12V Output

# PMC

### HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55022, Class B
- Also available: IP20 connector

### GENERAL SPECIFICATIONS

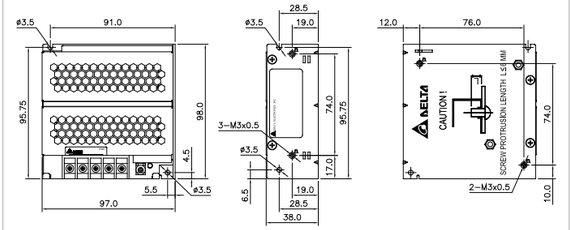
| OUTPUT | PMC-12V035W1AA | PMC-12V050W1AA | PMC-12V100W1AA | PMC-12V150W1B□ |
|---|---|---|---|---|
| Output Voltage | 12V | 12V | 12V | 12V |
| Output Voltage Range | 11-14V | 11-14V | 11-14V | 11-14V |
| Output Current | 3.00A | 4.17A | 8.33A | 12.5A |
| Output Power | 35W | 50W | 100W | 150W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | | |
| PARD (20MHz) | < 100mVpp | < 100mVpp | < 100mVpp | < 100mVpp |
| Hold-up Time | > 15ms @ 115Vac, > 80ms @ 230Vac | | | > 30ms @ 115Vac & 230Vac |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 85-264Vac (DC input range 125-375Vdc) | | | |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 0.75A @ 115Vac,<br>< 0.50A @ 230Vac | < 1.10A @ 115Vac,<br>< 0.70A @ 230Vac | < 2.00A @ 115Vac,<br>< 1.10A @ 230Vac | < 1.70A @ 115Vac,<br>< 1.00A @ 230Vac |
| Efficiency [1] at 100% Load | > 84.0% @ 115Vac & 230Vac | > 84.0% @ 115Vac,<br>> 83.0% @ 230Vac | > 84.0% @ 115Vac,<br>> 86.0% @ 230Vac | > 87.0% @ 115Vac,<br>> 88.0% @ 230Vac |
| Max Inrush Current | < 30A @ 115Vac,<br>< 60A @ 230Vac | < 30A @ 115Vac,<br>< 65A @ 230Vac | < 60A @ 115Vac,<br>< 130A @ 230Vac | < 60A @ 115Vac,<br>< 120A @ 230Vac |
| Power Factor | Conform to EN 61000-3-2 | | Conform to EN 61000-3-2,<br>Class A Limit | > 0.99 @ 115Vac,<br>> 0.90 @ 230Vac |
| Leakage Current | < 1mA @ 240Vac | | | |
| **MECHANICAL** | | | | |
| Case Cover / Chassis | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 98 x 97 x 38 mm | 128 x 97 x 38 mm | 158 x 97 x 38 mm | 178 x 97 x 38 mm |
| Unit Weight | 0.21 kg | 0.26 kg | 0.45 kg | 0.54 kg |
| Cooling System | Convection | | | |
| MTBF [2] | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -10°C to +70°C | | | |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 3,000m | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

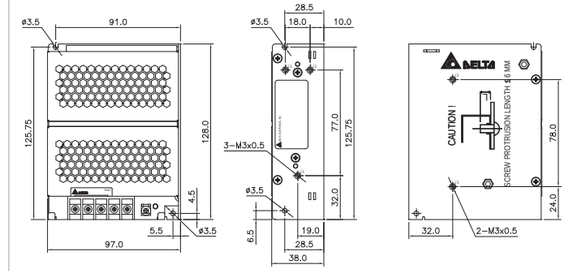


### MECHANICAL DRAWINGS

**PMC-12V035W1AA**




**PMC-12V050W1AA**




**PMC-12V100W1AA**




**PMC-12V150W1B□**




*Units in mm

| | PMC-12V035W1AA | PMC-12V050W1AA | PMC-12V100W1AA | PMC-12V150W1B□ |
|---|---|---|---|---|
| Input / Output Terminal | M3.5 x 5 Pins (Rated 300V/15A) | | M3.5 x 7 Pins (Rated 300V/15A) | • PMC-12V150W1BA: M3.5 x 7 Pins (Rated 300V/15A)<br>• PMC-12V150W1BJ: M3.5 x 7 Pins (Rated 300V/20A) |
| Input / Output Wire | AWG 22-14 | AWG 22-14 | AWG 22-14 | • PMC-12V150W1BA: AWG 18-14<br>• PMC-12V150W1BJ: AWG 18-12 |

# PMC Panel Mount Power Supply
## 24V Output

# PMC

### HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55022, Class B
- Also available: IP20 connector

### GENERAL SPECIFICATIONS

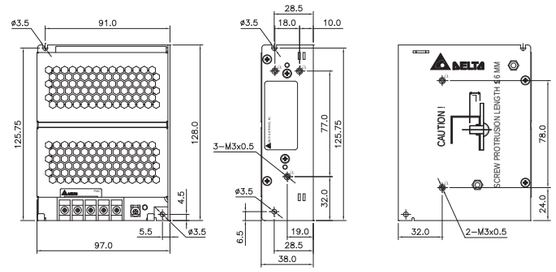
| OUTPUT | PMC-24V035W1A□ | PMC-24V050W1A□ | PMC-24V075W1A□ | PMC-24V100W1A□ |
|---|---|---|---|---|
| Output Voltage | 24V | 24V | 24V | 24V |
| Output Voltage Range | 22-28V | 22-28V | 22-28V | 22-28V |
| Output Current | 1.46A | 2.10A | 3.12A | 4.17A |
| Output Power | 35W | 50W | 75W | 100W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | | |
| PARD (20MHz) | < 150mVpp | < 150mVpp | < 100mVpp | < 150mVpp |
| Hold-up Time | > 15ms @ 115Vac, > 80ms @ 230Vac | > 15ms @ 115Vac, > 90ms @ 230Vac | | |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 85-264Vac (DC input range 125-375Vdc) | | | |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 0.72A @ 115Vac, < 0.50A @ 230Vac | < 1.10A @ 115Vac, < 0.70A @ 230Vac | < 1.50A @ 115Vac, < 1.00A @ 230Vac | < 2.00A @ 115Vac, < 1.10A @ 230Vac |
| Efficiency [1] at 100% Load | > 85.0% @ 115Vac & 230Vac | > 86.0% @ 115Vac & 230Vac | | |
| Max Inrush Current | < 30A @ 115Vac, < 60A @ 230Vac | | < 40A @ 115Vac, < 80A @ 230Vac | < 50A @ 115Vac, < 100A @ 230Vac |
| Power Factor | Conform to EN 61000-3-2 | | | Conform to EN 61000-3-2, Class A Limit |
| Leakage Current | < 1mA @ 240Vac | | | |
| **MECHANICAL** | | | | |
| Case Cover / Chassis | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 128 x 97 x 38 mm | | | 158 x 97 x 38 mm |
| Unit Weight | 0.24 kg | 0.26 kg | 0.30 kg | 0.41 kg |
| Cooling System | Convection | | | |
| MTBF [2] | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -10°C to +70°C | | | |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 3,000m | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

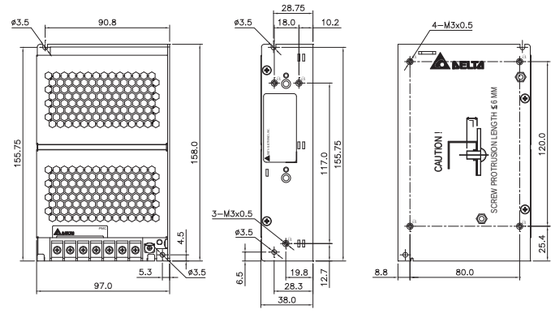


### MECHANICAL DRAWINGS

**PMC-24V035W1A□, PMC-24V050W1A□, PMC-24V075W1A□**




**PMC-24V100W1A□**




*Units in mm

| | PMC-24V035W1A□ | PMC-24V050W1A□ | PMC-24V075W1A□ | PMC-24V100W1A□ |
|---|---|---|---|---|
| Input / Output Terminal | • PMC-24V035W1AA: M3.5 x 5 Pins (Rated 300V/15A)<br>• PMC-24V035W1AJ: M3.5 x 5 Pins (Rated 300V/20A) | • PMC-24V050W1AA: M3.5 x 5 Pins (Rated 300V/15A)<br>• PMC-24V050W1AJ: M3.5 x 5 Pins (Rated 300V/20A) | • PMC-24V075W1AA: M3.5 x 5 Pins (Rated 300V/15A)<br>• PMC-24V075W1AJ: M3.5 x 5 Pins (Rated 300V/20A) | • PMC-24V100W1AA: M3.5 x 7 Pins (Rated 300V/15A)<br>• PMC-24V100W1AJ: M3.5 x 7 Pins (Rated 300V/20A) |
| Input / Output Wire | AWG 22-12 | AWG 22-12 | AWG 22-12 | AWG 22-12 |

# PMC Panel Mount Power Supply
## 24V Output

# PMC

### HIGHLIGHTS & FEATURES

- Universal AC input voltage without power de-rating
- Full corrosion resistant Aluminium chassis
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 700,000 hrs per Telcordia SR-332
- Safety approval according to IEC/EN/UL 60950-1 (ITE standard) and EMI to EN 55022, Class B
- Also available: IP20 and Front Face connectors

### GENERAL SPECIFICATIONS

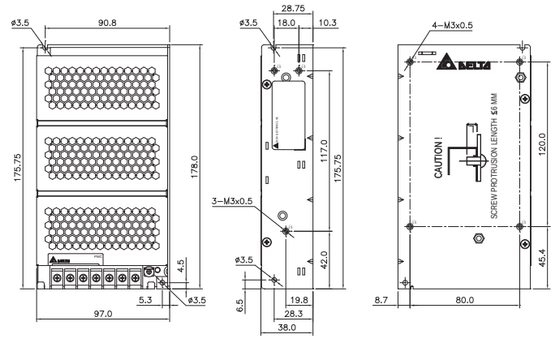
| | | NEW | | | |
|---|---|---|---|---|---|
| **OUTPUT** | **PMC-24V150W1A□** | **PMC-24V150W1B□** | **PMC-24V150W2AA** | **PMC-24V300W1BA** | **PMC-DSPV100W1A** |
| Output Voltage | 24V | 24V | 24V | V1: 24V, V2 SB: 12V | V1: 24V, V2: 5V |
| Output Voltage Range | 22-28V | 22-28V | 22-28V | V1: 22-28V | V1: 22.8-26.4V |
| Output Current | 6.25A | 6.25A | 6.25A | V1: 12.5A, V2 SB: 0.50A | V1: 4.00A, V2: 7.00A |
| Output Power | 150W | 150W | 150W | 300W | 100W |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) | | < 0.5% typ. (@ 170-264Vac input, 100% load) | < 0.5% typ. (@ 85-264Vac input, 100% load) | |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) | | < 1% typ. (@ 170-264Vac input, 0-100% load) | < 1% typ. (@ 85-264Vac input, 0-100% load) | |
| PARD (20MHz) | < 100mVpp | < 100mVpp | < 100mVpp | V1: < 100mVpp, V2: < 200mVpp | V1: < 200mVpp, V2: < 80mVpp |
| Hold-up Time | > 15ms @ 115Vac, > 80ms @ 230Vac | > 30ms @ 115Vac & 230Vac | > 20ms @ 230Vac | > 15ms @ nominal input, 100% load | > 15ms @ 115Vac, > 80ms @ 230Vac |
| **INPUT** | | | | | |
| Phase Input | Single Phase | | | | |
| Input Voltage Range | 85-264Vac (DC input range 125-375Vdc) | | 180-264Vac (DC input range 220-375Vdc) | 85-264Vac (DC input range 125-375Vdc) | |
| Input Frequency | 47-63Hz | | | | |
| Input Current | < 3.10A @ 115Vac, < 2.00A @ 230Vac | < 1.70A @ 115Vac, < 1.00A @ 230Vac | < 1.60A @ 230Vac | < 4.00A @ 115Vac, < 2.00A @ 230Vac | < 2.00A @ 115Vac, < 1.10A @ 230Vac |
| Efficiency [1] at 100% Load | > 87.0% @ 115Vac, > 88.0% @ 230Vac | > 88.0% @ 115Vac, > 89.0% @ 230Vac | > 87.0% 230Vac | > 86.0% @ 115Vac, > 88.0% @ 230Vac | > 84.0% @ 115Vac, > 86.0% @ 230Vac |
| Max Inrush Current | < 60A @ 115Vac, < 120A @ 230Vac | | < 120A @ 230Vac | < 35A @ 115Vac, < 70A @ 230Vac | < 50A @ 115Vac, < 100A @ 230Vac |
| Power Factor | NA | > 0.99 @ 115Vac, > 0.90 @ 230Vac | Conform to EN61000-3-2 Class A | > 0.99 @ 115Vac, > 0.97 @ 230Vac | Conform to EN61000-3-2 Class A |
| Leakage Current | < 1mA @ 240Vac | | | | |
| **MECHANICAL** | | | | | |
| Case Cover / Chassis | Aluminium | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 178 x 97 x 38 mm | | | 199 x 105 x 41 mm | 178 x 97 x 38 mm |
| Unit Weight | 0.48 kg | 0.54 kg | 0.50 kg | 0.82 kg | 0.52 kg |
| Cooling System | Convection | | | | |
| MTBF [2] | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs | > 700,000 hrs |
| **ENVIRONMENT** | | | | | |
| Operating Temperature | -10°C to +70°C | | | | |
| Storage Temperature | -25°C to +85°C | | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | | |
| Operating Altitude | 3,000m | | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 115Vac, O/P: 100% load) at Vertical Mounting Orientation
3) All parameters are specified at 25°C ambient unless otherwise noted

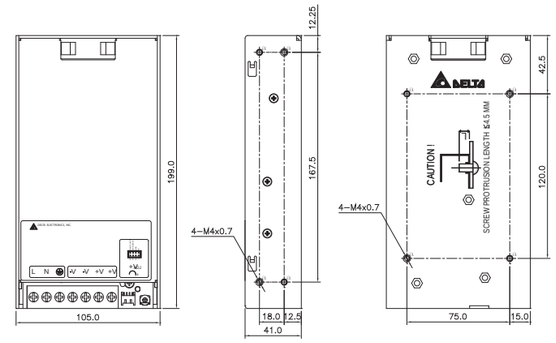


### MECHANICAL DRAWINGS

**PMC-24V150W1A□, PMC-12V150W1B□, PMC-24V150W2AA, PMC-DSPV100W1A**




**PMC-24V300W1BA**




*Units in mm

| | PMC-24V150W1A□ | PMC-24V150W1B□ | PMC-24V150W2AA | PMC-24V300W1BA | PMC-DSPV100W1A |
|---|---|---|---|---|---|
| Input / Output Terminal | • **PMC-24V150W1AA:** M3.5 x 7 Pins (Rated 300V/15A)<br>• **PMC-24V150W1AJ:** M3.5 x 7 Pins (Rated 300V/20A) | • **PMC-24V150W1BA:** M3.5 x 7 Pins (Rated 300V/15A)<br>• **PMC-24V150W1BJ:** M3.5 x 7 Pins (Rated 300V/20A)<br>• **PMC-24V150W1BL:** M3.5 x 7 Pins (Rated 300V/15A) | M3.5 x 7 Pins (Rated 300V/15A) | M3.5 X 7 Pins (Rated 300V/20A) | M3.5 x 7 Pins (Rated 300V/15A) |
| Input / Output Wire | • **PMC-24V150W1AA:** AWG 22-14<br>• **PMC-24V150W1AJ:** AWG 22-12 | • **PMC-24V150W1BA:** AWG 18-14<br>• **PMC-24V150W1BJ:** AWG 22-12<br>• **PMC-24V150W1BL:** AWG 18-14 | AWG 22-14 | AWG 20-16 | AWG 22-14 |

# PMT Panel Mount Power Supply
## 12V Output

# PMT

### HIGHLIGHTS & FEATURES

- AC input voltage selectable by switch (Universal AC input voltage for selected models only)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 500,000 hrs per Telcordia SR-332
- Versatile configuration options:
  - Open Frame (35W and 50W)
  - L Frame
  - Enclosed

### GENERAL SPECIFICATIONS

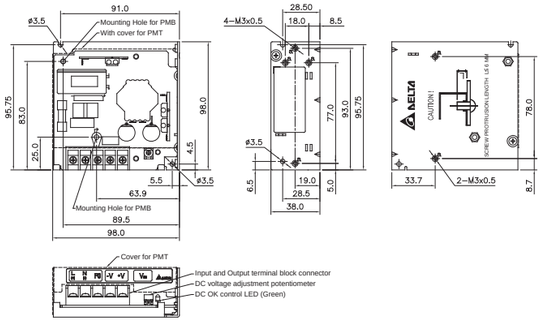
| | | | NEW | NEW |
|---|---|---|---|---|
| **OUTPUT** | **PM□-12V35W1A□** | **PM□-12V50W1A□** | **PM□-12V100W1A□** | **PM□-12V150W1A□** |
| Output Voltage | 12V | 12V | 12V | 12V |
| Output Voltage Range | 11-14V | 11-14V | 11-14V | 11-14V |
| Output Current | 2.92A | 4.17A | 8.30A | 12.5A |
| Output Power | 35W | 50W | 100W | 150W |
| Line Regulation | < 0.5% | | | |
| Load Regulation | < 1% | | < 0.5% | |
| PARD (20MHz) | < 100mVpp | < 100mVpp | < 120mVpp | < 120mVpp |
| Hold-up Time | > 16.7ms @ 115Vac | | > 20ms @ 230Vac | > 24ms @ 230Vac |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 90-264Vac | | 90-132Vac, 180-264Vac (Selectable by switch) | |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 0.75A @ 115Vac,<br>< 0.50A @ 230Vac | < 1.10A @ 115Vac,<br>< 0.70A @ 230Vac | < 2.00A @ 115Vac | < 3.00A @ 115Vac,<br>< 2.00A @ 230Vac |
| Efficiency [1] at 100% Load | > 84.0% @ 115Vac & 230Vac | > 83.0% @ 115Vac & 230Vac | > 86.0% @ 115Vac & 230Vac | > 83.0% @ 230Vac |
| Max Inrush Current | < 30A @ 115Vac,<br>< 60A @ 230Vac | < 30A @ 115Vac,<br>< 65A @ 230Vac | < 36A @ 230Vac | < 45A @ 230Vac |
| Power Factor | Conform to EN 61000-3-2 | | NA | |
| Leakage Current | < 1mA @ 240Vac | | | |
| **MECHANICAL** | | | | |
| Case Cover / Chassis | SGCC / Aluminium | SGCC / Aluminium | SGCC / Aluminium | SGCC / Aluminium |
| Dimensions (L x W x D) | 98 x 98 x 38 mm | 98 x 98 x 38 mm | 158 x 97 x 38 mm | 178 x 97 x 38 mm |
| Unit Weight | 0.22 kg | 0.23 kg | 0.36 kg | 0.48 kg |
| Cooling System | Convection | | | |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -10°C to +70°C | | | |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 5,000m | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C)
3) All parameters are specified at 25°C ambient unless otherwise noted

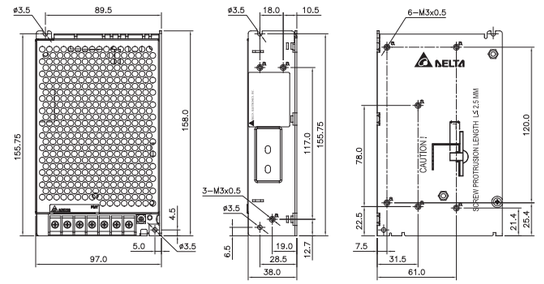


### MECHANICAL DRAWINGS

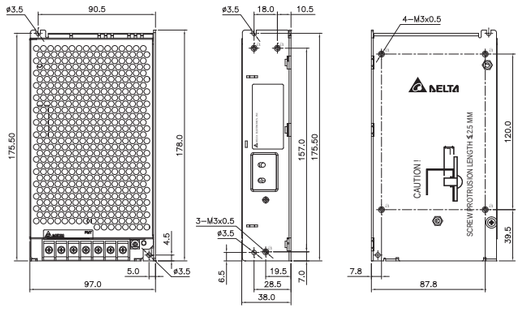
**PM□-12V35W1A□, PM□-12V50W1A□**




**PM□-12V100W1A□**




**PM□-12V150W1A□**




*Units in mm

| | PM□-12V35W1A□ | PM□-12V50W1A□ | PM□-12V100W1A□ | PM□-12V150W1A□ |
|---|---|---|---|---|
| Input / Output Terminal | • PM□-12V35W1AA: M3.5 x 5 Pins (Rated 300V/15A)<br>• PM□-12V35W1AG: M3.5 x 5 Pins (Rated 300V/20A)<br>• PM□-12V35W1AH: I/P (JST): B3P5-VH, O/P (JST): B2P3-VH | • PM□-12V50W1AA: M3.5 x 5 Pins (Rated 300V/15A)<br>• PM□-12V50W1AG: M3.5 x 5 Pins (Rated 300V/20A)<br>• PM□-12V50W1AH: I/P (JST): B3P5-VH, O/P (JST): B2P3-VH | • PM□-12V100W1AA: M3.5 x 7 Pins (Rated 300V/15A)<br>• PM□-12V100W1AG: M3.5 x 7 Pins (Rated 300V/20A)<br>• PM□-12V100W1AH: I/P (JWT): A3963WV2-5P-A, O/P (JWT): A3963WV2-5P-U | • PM□-12V150W1AA: M3.5 x 7 Pins (Rated 300V/15A)<br>• PM□-12V150W1AG: M3.5 x 7 Pins (Rated 300V/20A)<br>• PM□-12V150W1AH: I/P (JWT): A3963WV2-5P-A, O/P (JWT): A3963WV2-5P-U |
| Input / Output Wire | • PM□-12V35W1AA: AWG 22-12<br>• PM□-12V35W1AG: AWG 22-12<br>• PM□-12V35W1AH: AWG 22-18 | • PM□-12V50W1AA: AWG 22-12<br>• PM□-12V50W1AG: AWG 22-12<br>• PM□-12V50W1AH: AWG 22-18 | • PM□-12V100W1AA: AWG 22-12<br>• PM□-12V100W1AG: AWG 20-12<br>• PM□-12V100W1AH: AWG 20-18 | • PM□-12V150W1AA: AWG 22-12<br>• PM□-12V150W1AG: AWG 18-12<br>• PM□-12V150W1AH: AWG 18 |

# PMT Panel Mount Power Supply
## 24V Output

# PMT

### HIGHLIGHTS & FEATURES

- AC input voltage selectable by switch (Universal AC input voltage for selected models only)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 500,000 hrs per Telcordia SR-332
- Versatile configuration options:
  - Open Frame (35W and 50W)
  - L Frame
  - Enclosed

### GENERAL SPECIFICATIONS

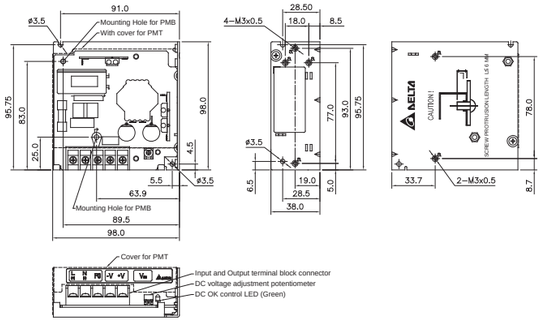
| | | | NEW | NEW |
|---|---|---|---|---|
| **OUTPUT** | **PM□-24V35W1A□** | **PM□-24V50W1A□** | **PM□-24V100W1A□** | **PM□-24V150W1A□** |
| Output Voltage | 24V | 24V | 24V | 24V |
| Output Voltage Range | 22-28V | 22-28V | 22.8-27.6V | 22.8-27.6V |
| Output Current | 1.46A | 2.10A | 4.50A | 6.50A |
| Output Power | 35W | 50W | 100W | 150W |
| Line Regulation | < 0.5% | | | |
| Load Regulation | < 1% | | | < 0.5% |
| PARD (20MHz) | < 100mVpp | < 100mVpp | < 120mVpp | < 120mVpp |
| Hold-up Time | > 16.7ms @ 115Vac | | > 25ms @ 115Vac,<br>> 30ms @ 230Vac | > 24ms @ 230Vac |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 90-264Vac | | 90-132Vac, 180-264Vac (Selectable by switch) | |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 0.75A @ 115Vac,<br>< 0.50A @ 230Vac | < 1.10A @ 115Vac,<br>< 0.65A @ 230Vac | < 2.00A @ 115Vac,<br>< 1.20A @ 230Vac | < 3.00A @ 115Vac,<br>< 2.00A @ 230Vac |
| Efficiency [1] at 100% Load | > 85.0% @ 115Vac & 230Vac | > 86.0% @ 115Vac & 230Vac | | > 86.0% @ 230Vac |
| Max Inrush Current | < 30A @ 115Vac, < 60A @ 230Vac | | < 36A @ 230Vac | < 45A @ 230Vac |
| Power Factor | Conform to EN 61000-3-2 | | Conform to EN 61000-3-2,<br>Class A | NA |
| Leakage Current | < 1mA @ 240Vac | | | |
| **MECHANICAL** | | | | |
| Case Cover / Chassis | SGCC / Aluminium | SGCC / Aluminium | SGCC / Aluminium | SGCC / Aluminium |
| Dimensions (L x W x D) | 98 x 98 x 38 mm | 98 x 98 x 38 mm | 158 x 97 x 38 mm | 178 x 97 x 38 mm |
| Unit Weight | 0.22 kg | 0.24 kg | 0.36 kg | 0.48 kg |
| Cooling System | Convection | | | |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -10°C to +70°C | | | |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 5,000m | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C)
3) All parameters are specified at 25°C ambient unless otherwise noted

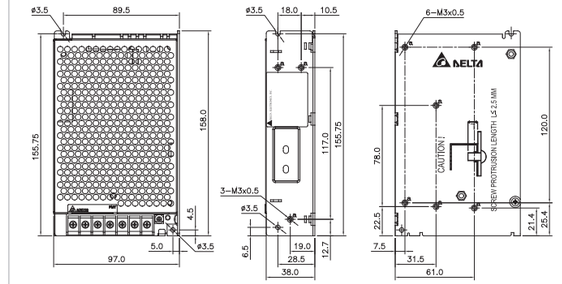


### MECHANICAL DRAWINGS

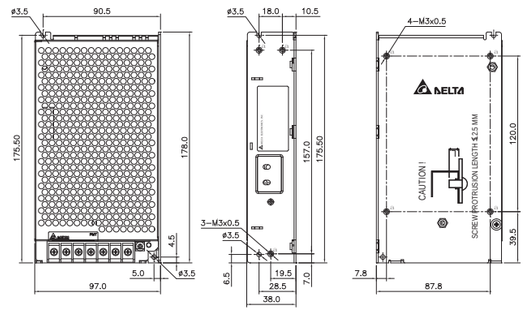
**PM□-24V35W1A□, PM□-24V50W1A□**




**PM□-24V100W1A□**




**PM□-24V150W1A□**




*Units in mm

| | PM□-24V35W1A□ | PM□-24V50W1A□ | PM□-24V100W1A□ | PM□-24V150W1A□ |
|---|---|---|---|---|
| Input / Output Terminal | • PM□-24V35W1AA: M3.5 x 5 Pins (Rated 300V/15A)<br>• PM□-24V35W1AG: M3.5 x 5 Pins (Rated 300V/20A)<br>• PM□-24V35W1AH: I/P (JST): B3P5-VH, O/P (JST): B2P3-VH | • PM□-24V50W1AA: M3.5 x 5 Pins (Rated 300V/15A)<br>• PM□-24V50W1AG: M3.5 x 5 Pins (Rated 300V/20A)<br>• PM□-24V50W1AH: I/P (JST): B3P5-VH, O/P (JST): B2P3-VH | • PM□-24V100W1AA: M3.5 x 7 Pins (Rated 300V/15A)<br>• PM□-24V100W1AG: M3.5 x 7 Pins (Rated 300V/20A)<br>• PM□-24V100W1AH: I/P (JWT): A3963WV2-5P-A, O/P (JWT): A3963WV2-5P-U | • PM□-24V150W1AA: M3.5 x 7 Pins (Rated 300V/15A)<br>• PM□-24V150W1AG: M3.5 x 7 Pins (Rated 300V/20A)<br>• PM□-24V150W1AH: I/P (JWT): A3963WV2-5P-A, O/P (JWT): A3963WV2-5P-U |
| Input / Output Wire | • PM□-24V35W1AA: AWG 22-12<br>• PM□-24V35W1AG: AWG 22-12<br>• PM□-24V35W1AH: AWG 22-18 | • PM□-24V50W1AA: AWG 22-12<br>• PM□-24V50W1AG: AWG 22-12<br>• PM□-24V50W1AH: AWG 22-18 | • PM□-24V100W1AA: AWG 22-12<br>• PM□-24V100W1AG: AWG 20-12<br>• PM□-24V100W1AH: AWG 20-18 | • PM□-24V150W1AA: AWG 22-12<br>• PM□-24V150W1AG: AWG 18-12<br>• PM□-24V150W1AH: AWG 18 |

# PMT Panel Mount Power Supply

## 24V, 4.2V, 5V Output with Fan

# PMT

### HIGHLIGHTS & FEATURES

- AC input voltage selectable by switch (Universal AC input voltage for selected models only)
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- High MTBF > 500,000 hrs per Telcordia SR-332

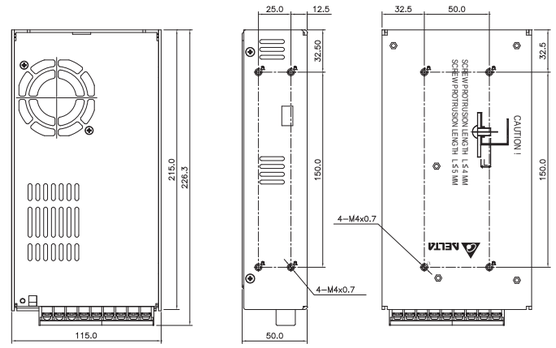
### GENERAL SPECIFICATIONS

| | | NEW | NEW | NEW |
|---|---|---|---|---|
| **OUTPUT** | **PMT-24V350W1AG** | **PMT-24V350W1AK** | **PMT-4.2V350W1AM** | **PMT-5V350W1AM** |
| Output Voltage | 24V | 24V | 4.2 | 5V |
| Output Voltage Range | 20.0-26.4V | 20.0-26.4V | 3.78-4.70V | 4.50-5.60V |
| Output Current | 14.6A | 14.6A | 60A | 60A |
| Output Power | 350W | 350W | 350W | 350W |
| Line Regulation | < 0.5% | | | |
| Load Regulation | < 0.5% | | < 2.5% | |
| PARD (20MHz) | < 150mVpp | < 150mVpp | < 150mVpp | < 150mVpp |
| Hold-up Time | > 16ms @ 115Vac, > 20ms @ 230Vac | | > 20ms @ 230Vac | |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 90-132Vac, 180-264Vac (Selectable by switch) | | | |
| Input Frequency | 47-63Hz | | | |
| Input Current | < 7.00A @ 115Vac, < 4.00A @ 230Vac | | < 7.00A @ 115Vac | |
| Efficiency [1] at 100% Load | > 87.0% @ 230Vac | | > 73.0% @ 230Vac | > 75.0% @ 230Vac |
| Max Inrush Current | < 50A @ 115Vac, < 60A @ 230Vac | | < 60A @ 230Vac | |
| Power Factor | Conform to EN 61000-3-2 | | NA | |
| Leakage Current | < 3.5mA @ 240Vac | | | |
| **MECHANICAL** | | | | |
| Case Cover / Chassis | Aluminium | Aluminium | Aluminium | Aluminium |
| Dimensions (L x W x D) | 215 x 115 x 50 mm | | | |
| Unit Weight | 0.82 kg | 0.82 kg | 0.78 kg | 0.78 kg |
| Cooling System | Forced Cooling | | | |
| Input / Output Terminal | M3.5 x 9 Pins (Rated 300V/20A) | | M3.5 x 9 Pins (Rated 300V/15A) | |
| Input / Output Wire | AWG 20-12 | AWG 20-12 | AWG 14-12 | AWG 14-12 |
| MTBF [2] | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs | > 500,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -20°C to +60°C | -20°C to +70°C | | |
| Storage Temperature | -25°C to +85°C | | | |
| Power De-rating | > 50°C (4% / °C) | > 50°C (2.5% / °C); > 60°C (2.5% / °C) | > 50°C (4% / °C); > 60°C (1% / °C) | |
| Operating Humidity | < 95% RH (Non-Condensing) | | | |
| Operating Altitude | 5,000m | | | |

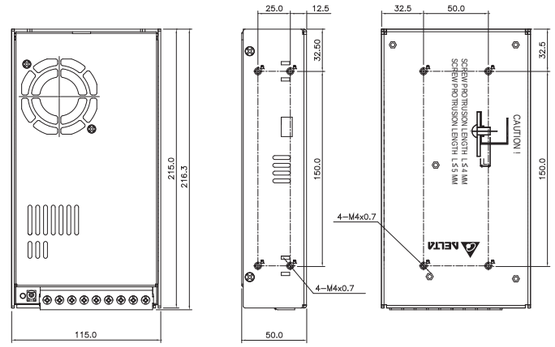
Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C)
3) All parameters are specified at 25°C ambient unless otherwise noted

### MECHANICAL DRAWINGS

**PMT-24V350W1AG, PMT-24V350W1AK**



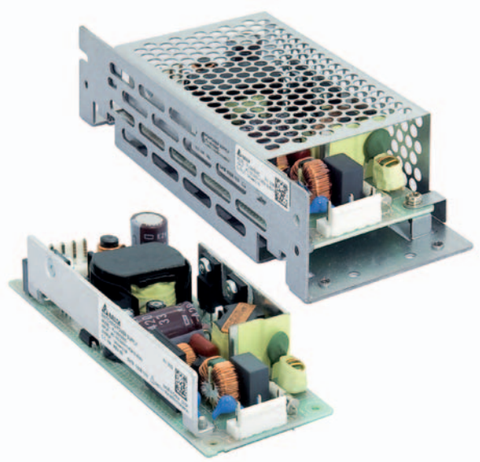

**PMT-4.2V350W1AM, PMT-5V350W1AM**




*Units in mm

# Standard Products
## Open Frame Power Supply

### PJ



The PJ Open Frame Power Supply series offers the most widely used output voltages of 12V and 24V with power ratings at 30W, 50W, 100W and 150W and 48V with power rating at 50W. These power supply units come with universal AC input from 85Vac to 264Vac and wide operating temperature of -10°C to +70°C. The features include low leakage and low Inrush current while the conformal coating on the PCBAs provides protection against dust and chemical pollutants. The PJ Open Frame Power Supply series is certified to EMC standards according to EN 55011 for industrial, scientific and medical (ISM) radio-frequency equipment; EN 55022 for Information Technology Equipment (ITE) radio-frequency equipment; EMS according to EN 55024. In order to ensure the highest standard of reliability, only recognized Japanese connectors and capacitors are used and options for metal chassis and case cover are available for different installation preferences. The remote ON/OFF feature is available for output power at 100W and above. The PJ Open Frame Power Supply series also conforms to major international safety standards including IEC/EN/UL 60950-1 standards and is fully compliant with RoHS Directive 2011/65/EU for environmental protection.

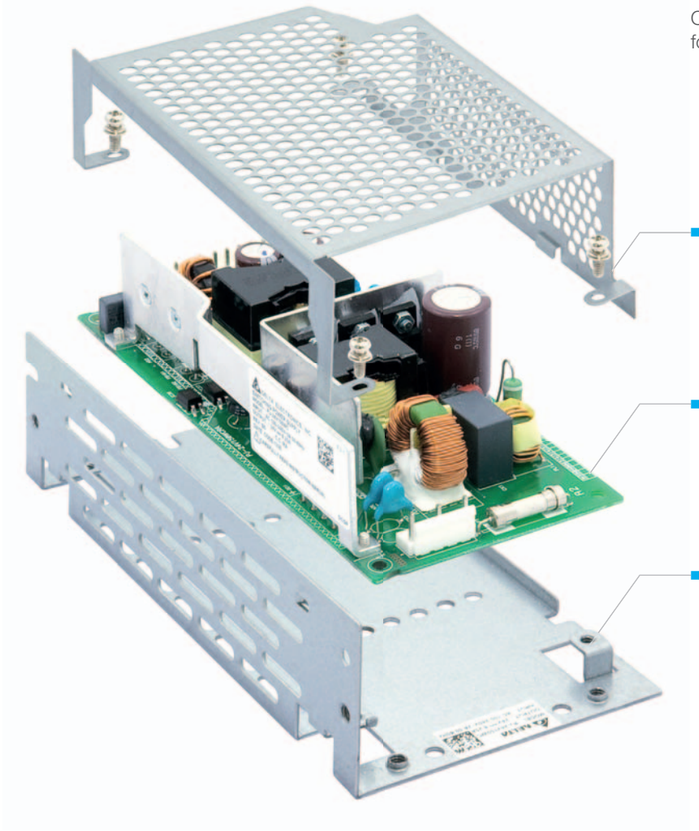
For more information or enquiries, please do not hesitate to contact your local Delta Electronics distributor or visit **www.DeltaPSU.com**.

### Typical Applications for PJ



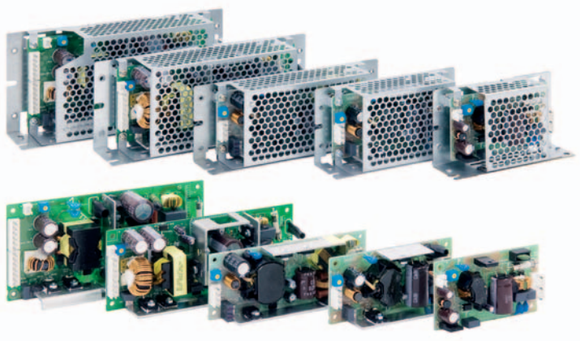

- CCTV
- Parking systems
- Semi-conductor washers
- Measuring equipments
- Automatic entrance gates
- Injection molding machines
- Air showers
- Time recorders
- Ticket vending machines

### Configuration Options




Options for metal chassis and case cover are available for different installation preferences.

# PJ Open Frame Power Supply
## 12V Output



# PJ

### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- High PF > 0.97
- Low inrush current / low leakage current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Long life capacitors

### GENERAL SPECIFICATIONS

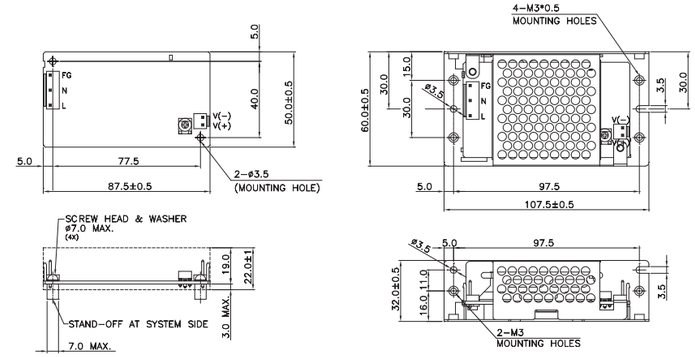
| | NEW | NEW | NEW | NEW | NEW |
|---|---|---|---|---|---|
| **OUTPUT** | **PJ-12V15W□NA** | **PJ-12V30W□NA** | **PJ-12V50W□NA** | **PJ-12V100W□□A** | **PJ-12V150W□□A** |
| Output Voltage | 12V | 12V | 12V | 12V | 12V |
| Output Voltage Range | 10.8-13.2V | 10.8-13.2V | 10.8-13.2V | 10.8-13.2V | 10.8-13.2V |
| Output Current | 1.30A | 2.50A | 4.30A | 8.50A | 12.5A |
| Output Power | 15W | 30W | 50W | 100W | 150W |
| Line Regulation | < 48mV | | | | |
| Load Regulation | < 100mV | | | | |
| PARD (20MHz) | < 120mVpp | < 150mVpp | < 150mVpp | < 150mVpp | < 150mVpp |
| Hold-up Time | 20ms typ. @ 100Vac | | | | |
| **INPUT** | | | | | |
| Phase Input | Single Phase | | | | |
| Input Voltage Range | 85-264Vac | | | | |
| Input Frequency | 47-63Hz | | | | |
| Input Current | 0.35A typ. @ 100Vac, 0.20A typ. @ 200Vac | 0.65A typ. @ 100Vac, 0.35A typ. @ 200Vac | | 1.30A typ. @ 100Vac, 0.65A typ. @ 200Vac | 1.90A typ. @ 100Vac, 0.95A typ. @ 200Vac |
| Efficiency [1] at 100% Load | 82.0% typ. @ 100Vac, 83.5% typ. @ 200Vac | 83.0% typ. @ 100Vac, 85.0% typ. @ 200Vac | | 85.0% typ. @ 100Vac, 87.5% typ. @ 200Vac | 88.0% typ. @ 100Vac, 91.0% typ. @ 200Vac |
| Max Inrush Current | 15A typ. @ 100Vac, 30A typ. @ 200Vac | | | | |
| Power Factor | NA | Conform to EN 61000-3-2 Class A | 0.98 typ. @ 100Vac, 0.97 typ. @ 200Vac | 0.99 typ. @ 100Vac, 0.98 typ. @ 200Vac | |
| Leakage Current | < 0.15mA @ 100Vac, < 0.30mA @ 230Vac | < 0.10mA @ 100Vac, < 0.20mA @ 230Vac | | < 0.20mA @ 100Vac, < 0.40mA @ 230Vac | |
| **MECHANICAL** | | | | | |
| Case Cover / Chassis | SGCC | SGCC | SGCC | SGCC | SGCC |
| Dimensions (L x W x D) [2] | 87.5 x 50 x 22 mm | 105 x 50 x 25.6 mm | 132 x 50 x 26.6 mm | 155 x 62 x 33.5 mm | 160 x 75 x 37 mm |
| Unit Weight [2] | 0.055 kg | 0.11 kg | 0.16 kg | 0.26 kg | 0.29 kg |
| Cooling System | Convection | | | | |
| Input Terminal | (JST): B3P5-VH | | | | |
| Output Terminal | (JST): B2P-VH | (JST): B4P-VH | | (JST): B8P-VH | V– (JST): B7P-VH, V+ (JST): B6P-VH |
| Input / Output Wire | AWG 22-18 | AWG 22-18 | AWG 22-18 | AWG 22-18 | AWG 22-18 |
| MTBF [3] | > 200,000 hrs | > 200,000 hrs | > 200,000 hrs | > 200,000 hrs | > 200,000 hrs |
| **ENVIRONMENT** | | | | | |
| Operating Temperature | -10°C to +70°C | | | | |
| Storage Temperature | -25°C to +75°C | | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | | |
| Operating Humidity | < 90% RH (Non-Condensing) | | | | |
| Operating Altitude | 3,000m | | | | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) Open Frame (without chassis and cover)
3) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C)
4) All parameters are specified at 25°C ambient unless otherwise noted

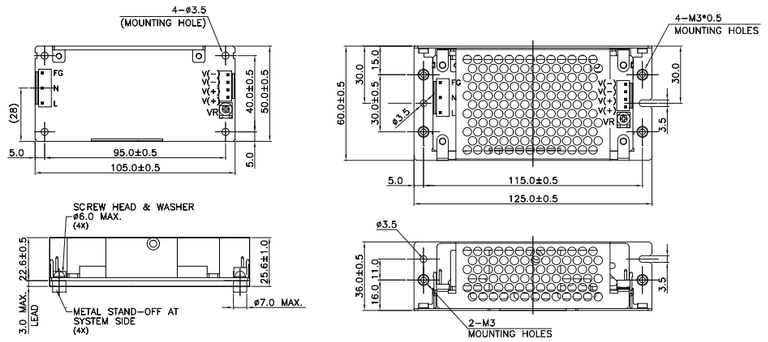


### MECHANICAL DRAWINGS

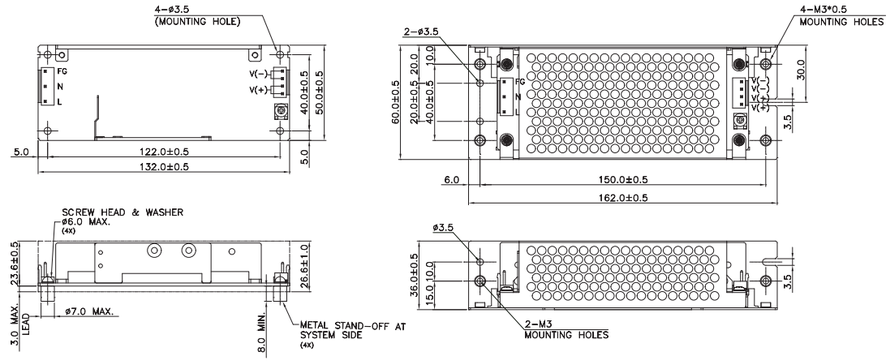
**PJ-12V15W□NA**




**PJ-12V30W□NA**



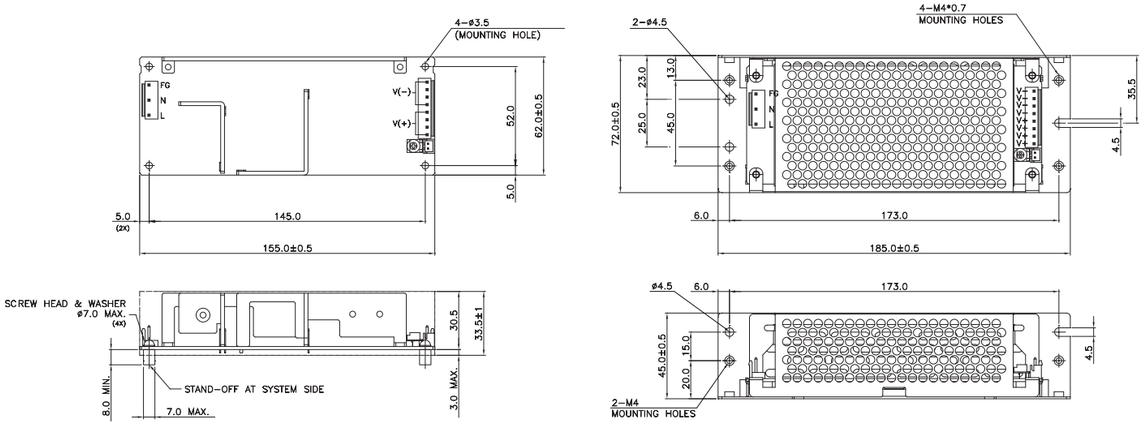

**PJ-12V50W□NA**



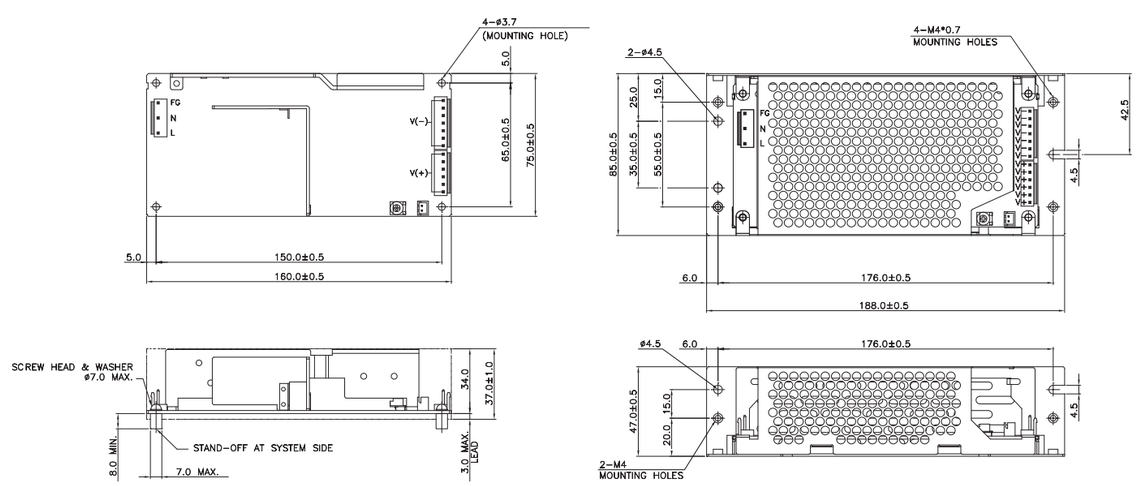

*Units in mm

## MECHANICAL DRAWINGS

### PJ-12V100W□□A



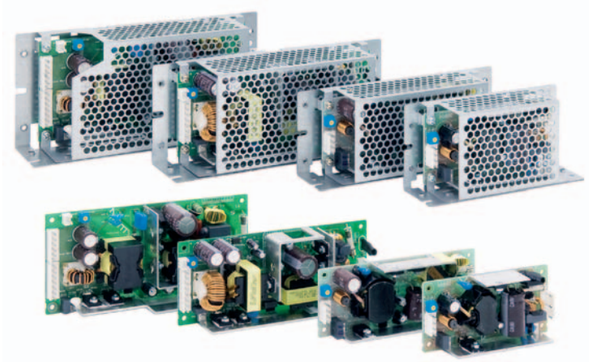

### PJ-12V150W□□A




*Units in mm



# PJ Open Frame Power Supply
## 24V Output



# PJ

## HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- High PF > 0.97
- Low inrush current / low leakage current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Long life capacitors

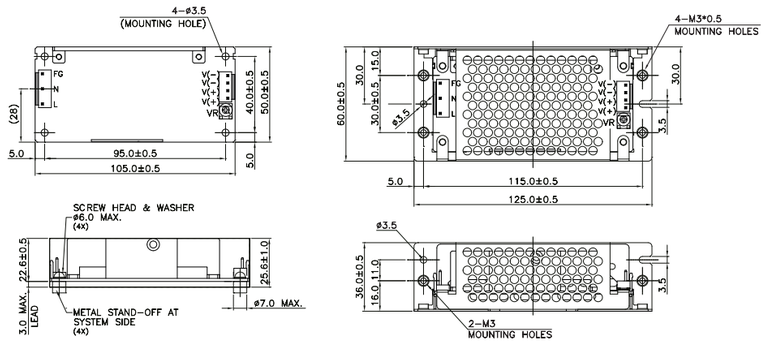
## GENERAL SPECIFICATIONS

| | NEW | NEW | NEW | NEW |
|---|---|---|---|---|
| **OUTPUT** | **PJ-24V30W□NA** | **PJ-24V50W□NA** | **PJ-24V100W□□A** | **PJ-24V150W□□A** |
| Output Voltage | 24V | 24V | 24V | 24V |
| Output Voltage Range | 21.6-26.4V | 21.6-26.4V | 21.6-26.4V | 21.6-26.4V |
| Output Current | 1.30A | 2.10A | 4.30A | 6.30 |
| Output Power | 30W | 50W | 100W | 150W |
| Line Regulation | < 96mV | | | |
| Load Regulation | < 150mV | | | |
| PARD (20MHz) | < 150mVpp | < 150mVpp | < 150mVpp | < 150mVpp |
| Hold-up Time | 20ms typ. @ 100Vac | | | |
| **INPUT** | | | | |
| Phase Input | Single Phase | | | |
| Input Voltage Range | 85-264Vac | | | |
| Input Frequency | 47-63Hz | | | |
| Input Current | 0.65A typ. @ 100Vac, 0.35A typ. @ 200Vac | | 1.30A typ. @ 100Vac,<br>0.65A typ. @ 200Vac | 1.90A typ. @ 100Vac,<br>0.95A typ. @ 200Vac |
| Efficiency [1] at 100% Load | 85.0% typ. @ 100Vac,<br>86.0% typ. @ 200Vac | 84.5% typ. @ 100Vac,<br>87.0% typ. @ 200Vac | 86.0% typ. @ 100Vac,<br>89.0% typ. @ 200Vac | 88.0% typ. @ 100Vac,<br>91.0% typ. @ 200Vac |
| Max Inrush Current | 15A typ. @ 100Vac, 30A typ. @ 200Vac | | | |
| Power Factor | Conform to EN 61000-3-2,<br>Class A | 0.98 typ. @ 100Vac,<br>0.97 typ. @ 200Vac | 0.99 typ. @ 100Vac,<br>0.98 typ. @ 200Vac | 0.99 typ. @ 100Vac,<br>0.97 typ. @ 200Vac |
| Leakage Current | < 0.10mA @ 100Vac, < 0.20mA @ 230Vac | | < 0.20mA @ 100Vac, < 0.40mA @ 230Vac | |
| **MECHANICAL** | | | | |
| Case Cover / Chassis | SGCC | SGCC | SGCC | SGCC |
| Dimensions (L x W x D) [2] | 105 x 50 x 25.6 mm | 132 x 50 x 26.6 mm | 155 x 62 x 33.5 mm | 160 x 75 x 37 mm |
| Unit Weight [2] | 0.11 kg | 0.16 kg | 0.26 kg | 0.29 kg |
| Cooling System | Convection | | | |
| Input Terminal | (JST): B3P5-VH | | | |
| Output Terminal | (JST): B4P-VH | | (JST): B8P-VH | V– (JST): B7P-VH,<br>V+ (JST): B6P-VH |
| Input / Output Wire | AWG 22-18 | AWG 22-18 | AWG 22-18 | AWG 22-18 |
| MTBF [3] | > 200,000 hrs | > 200,000 hrs | > 200,000 hrs | > 200,000 hrs |
| **ENVIRONMENT** | | | | |
| Operating Temperature | -10°C to +70°C | | | |
| Storage Temperature | -25°C to +75°C | | | |
| Power De-rating | > 50°C (2.5% / °C) | | | |
| Operating Humidity | < 90% RH (Non-Condensing) | | | |
| Operating Altitude | 3,000m | | | |

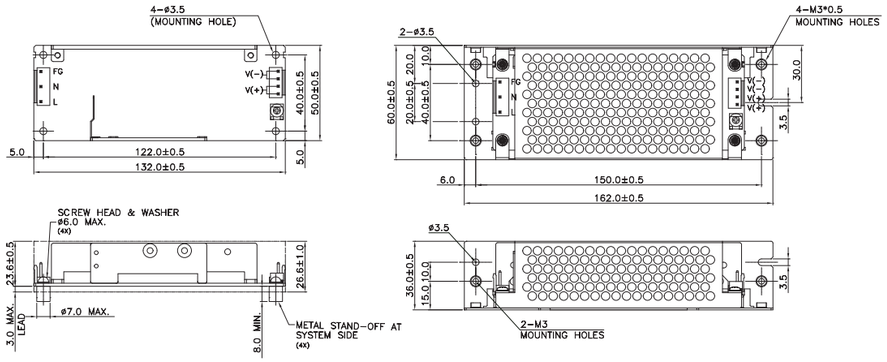
Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) Open Frame (without chassis and cover)
3) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C)
4) All parameters are specified at 25°C ambient unless otherwise noted

## MECHANICAL DRAWINGS

### PJ-24V30W□NA



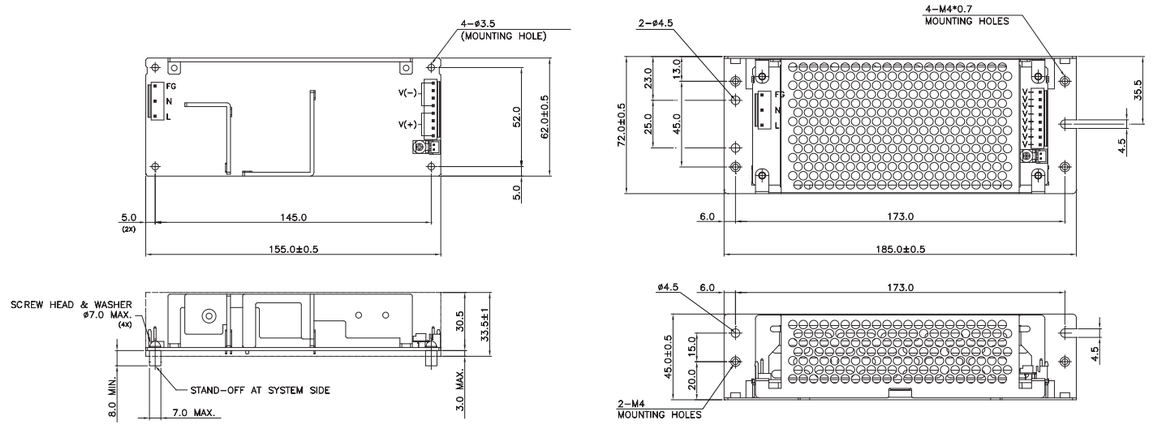

### PJ-24V50W□NA



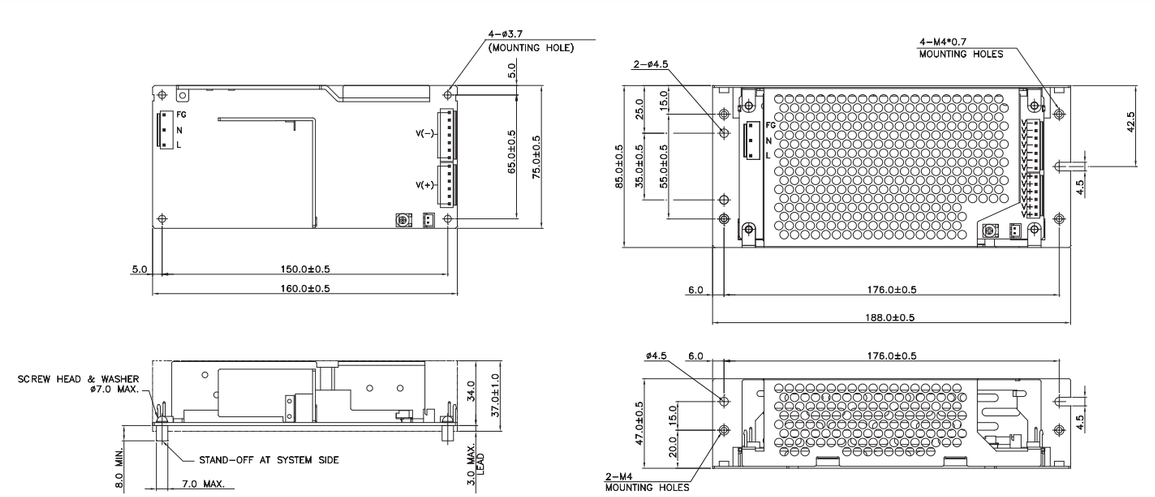

*Units in mm



### PJ-24V100W□□A

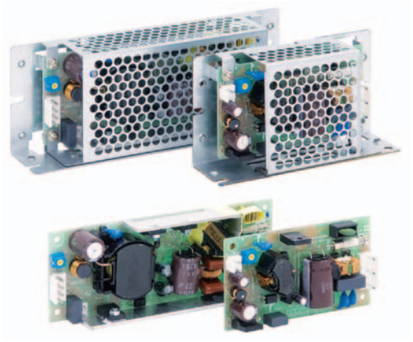



### PJ-24V150W□□A




*Units in mm

# PJ Open Frame Power Supply
## 5V, 48V Output



# PJ

### HIGHLIGHTS & FEATURES

- Universal AC input voltage range
- High PF > 0.97
- Low inrush current / low leakage current
- Conforms to harmonic current IEC/EN 61000-3-2, Class A
- Conformal coating on PCBA to protect against chemical and dust pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Long life capacitors

### GENERAL SPECIFICATIONS

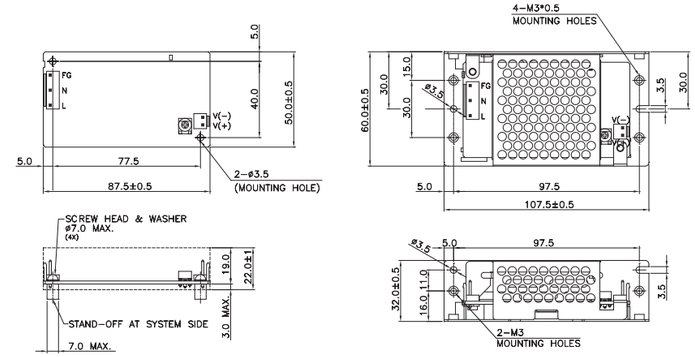
| | NEW | NEW |
|---|---|---|
| **OUTPUT** | **PJ-5V15W□NA** | **PJ-48V50W□NA** |
| Output Voltage | 5V | 48V |
| Output Voltage Range | 4.50-5.50V | 43.2-52.8V |
| Output Current | 3.00A | 1.10A |
| Output Power | 15W | 50W |
| Line Regulation | < 20mV | < 192mV |
| Load Regulation | < 40mV | < 240mV |
| PARD (20MHz) | < 120mVpp | < 300mVpp |
| Hold-up Time | 20ms typ. @ 100Vac | |
| **INPUT** | | |
| Phase Input | Single Phase | |
| Input Voltage Range | 85-264Vac | |
| Input Frequency | 47-63Hz | |
| Input Current | 0.35A typ. @ 100Vac,<br>0.20A typ. @ 200Vac | 0.65A typ. @ 100Vac,<br>0.35A typ. @ 200Vac |
| Efficiency [1] at 100% Load | 77.0% typ. @ 100Vac,<br>78.5% typ. @ 200Vac | 83.0% typ. @ 100Vac,<br>85.0% typ. @ 200Vac |
| Max Inrush Current | 15A typ. @ 100Vac, 30A typ. @ 200Vac | |
| Power Factor | NA | 0.98 typ. @ 100Vac,<br>0.97 typ. @ 200Vac |
| Leakage Current | < 0.15mA @ 100Vac,<br>< 0.30mA @ 230Vac | < 0.10mA @ 100Vac,<br>< 0.20mA @ 230Vac |
| **MECHANICAL** | | |
| Case Cover / Chassis | SGCC | SGCC |
| Dimensions (L x W x D) [2] | 87.5 x 50 x 22 mm | 132 x 50 x 26.6 mm |
| Unit Weight [2] | 0.055 kg | 0.16 kg |
| Cooling System | Convection | |
| Input Terminal | (JST): B3P5-VH | |
| Output Terminal | (JST): B2P-VH | (JST): B4P-VH |
| Input / Output Wire | AWG 22-18 | AWG 22-18 |
| MTBF [3] | > 200,000 hrs | > 200,000 hrs |
| **ENVIRONMENT** | | |
| Operating Temperature | -10°C to +70°C | |
| Storage Temperature | -25°C to +75°C | |
| Power De-rating | > 50°C (2.5% / °C) | |
| Operating Humidity | < 90% RH (Non-Condensing) | |
| Operating Altitude | 3,000m | |

Notes
1) Efficiency: O/P 100% load, Ta: 25°C at Vertical Mounting Orientation
2) Open Frame (without chassis and cover)
3) MTBF as per Telcordia SR-332 (Confidential level: 90%, I/P: 100Vac, O/P: 100% load, Ta: 35°C)
4) All parameters are specified at 25°C ambient unless otherwise noted

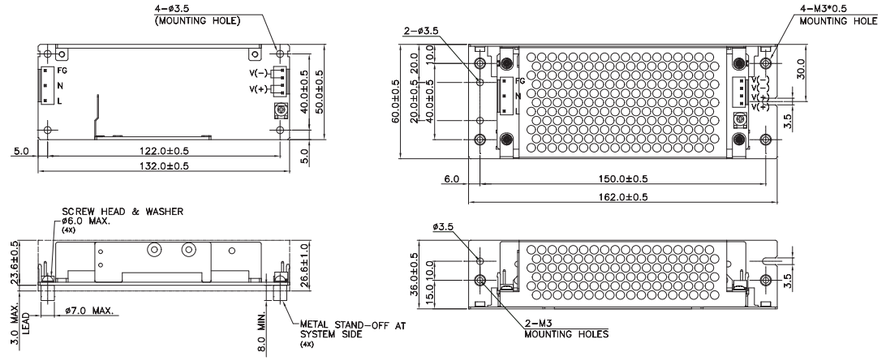


### MECHANICAL DRAWINGS

**PJ-5V15W□NA**



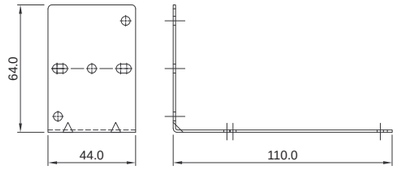

**PJ-48V50W□NA**



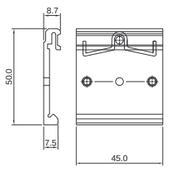

*Units in mm

# DIN Rail Accessories
## L-01, L-02, L-03A, P-03

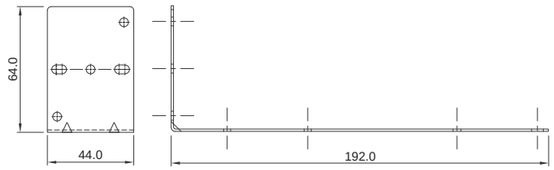
### L-01



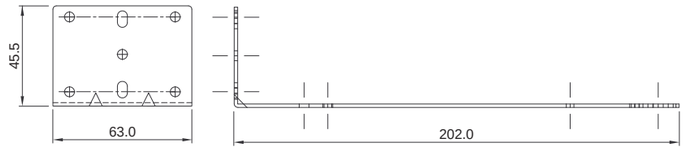

### P-03



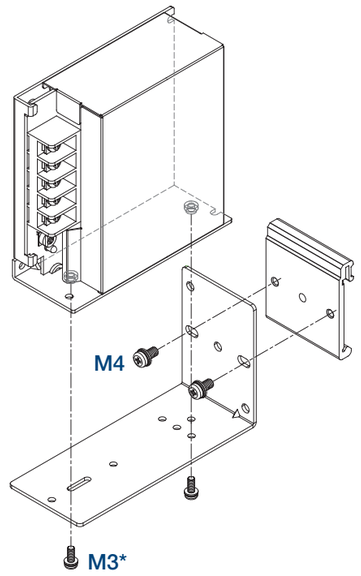

### L-02




### L-03A



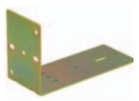
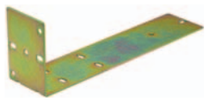
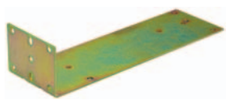

### Accessories Assembly




*Except PMC-24V300W1BA. Please use M4 screws only.

### Model Information

#### DIN Rail Accessories

| Item | Model Number | Compatible Models |
|---|---|---|
|  | L-01 | PMC-05V015W1AA, PMC-05V035W1AA, PMC-05V050W1AA<br>PMC-12V035W1AA, PMC-12V050W1AA<br>PMC-24V035W1A□, PMC-24V050W1A□, PMC-24V075W1A□<br>PMT-12V35W1A□, PML-12V35W1A□, PMT-12V50W1A□, PML-12V50W1A□,<br>PMT-24V35W1A□, PML-24V35W1A□, PMT-24V50W1A□, PML-24V50W1A□ |
|  | L-02 | PMC-12V100W1AA, PMC-12V150W1B□<br>PMC-24V100W1A□, PMC-24V150W1A□, PMC-24V150W1B□,<br>PMC-24V150W2AA, PMC-DSPV100W1A<br>PMT-12V100W1A□, PML-12V100W1A□, PMT-12V150W1A□, PML-12V150W1A□,<br>PMT-24V100W1A□, PML-24V100W1A□, PMT-24V150W1A□, PML-24V150W1A□ |
|  | L-03A | PMC-24V300W1BA |
|  | P-03 | All models<br>***P-03 must be used with L-01, L-02 or L-03A** |



# Standards & Approvals
## Delta Standard Power Supplies

| | CE | CB Scheme to IEC 60950-1 | SIQ or TUV or NEMKO to EN 60950-1 | UL 60950-1 | UL 508 | UL 1310 | NEC Class 2 | CSA C22.2 No. 107.1-01 | CSA C22.2 No. 60950-1 | ATEX EN 60079-15 | CSA C22.2 No. 213 and ANSI/ISA-12.12.09 | EN 61204-3 | SEMI F47 | RoHS Directive 2011/65/EU | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (EMC-Immunity) | EN 61000-6-2 (EMC-Immunity) | EN 55024 | EN 55011 Class B | EN 55022 Class A | EN 55022 Class B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DRP012V015W1AY | ● | ● | ● | ● | ● | | | ● | | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DRP012V015W1AZ | ● | ● | ● | ● | ● | | | ● | | | | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP012V030W1AY | ● | ● | ● | ● | ● | | | ● | | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DRP012V030W1AZ | ● | ● | ● | ● | ● | | | ● | | | | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP012V060W1AA | ● | ● | ● | ● | ● | | | ● | | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DRP012V060W1AN | ● | ● | ● | ● | ● | | | ● | | | | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP012V100W1AA | ● | ● | ● | ● | ● | | | ● | | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DRP012V100W1AN | ● | ● | ● | ● | ● | | | ● | | | | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP024V060W1AZ | ● | ● | ● | ● | ● | | | ● | ● | | | | | ● | ● | ● | ● | | ● | ● | | ● |
| DRP024V060W1AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V060W1AN | ● | ● | ● | ● | ● | | | ● | ● | | | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V120W1AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V120W1AN | ● | ● | ● | ● | ● | | | ● | ● | | | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V240W1AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V240W1AN | ● | ● | ● | ● | ● | | | ● | ● | | | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V480W1AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V480W1AN | ● | ● | ● | ● | ● | | | ● | ● | | | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V060W3AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V120W3AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V240W3AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | | ● | ● | | ● |
| DRP024V480W3AA | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | | ● | ● | ● | ● | | ● | ● | ● | | ● |

# Standards & Approvals

## Delta Standard Power Supplies

| | CE | CB Scheme to IEC 60950-1 | SIQ or TUV or NEMKO to EN 60950-1 | UL 60950-1 | UL 508 | UL 1310 | NEC Class 2 | CSA C22.2 No. 107.1-01 | CSA C22.2 No. 60950-1 | ATEX EN 60079-15 | CSA C22.2 No. 213 and ANSI/ISA-12.12.09 | EN 61204-3 | SEMI F47 | RoHS Directive 2011/65/EU | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (EMC-Immunity) | EN 61000-6-2 (EMC-Immunity) | EN 55024 | EN 55011 Class B | EN 55022 Class A | EN 55022 Class B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DRP024V060W1NY | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V060W1NZ | ● | ● | ● | ● | ● | ● | ● | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V060W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP024V060W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP024V120W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP024V120W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP024V240W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP024V240W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP024V480W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V480W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V060W3BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V060W3BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V120W3BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V120W3BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V240W3BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V240W3BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V480W3BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V480W3BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V960W3BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP024V960W3BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP048V060W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP048V060W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP048V120W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP048V120W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP048V240W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP048V240W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRP048V480W1BA | ● | ● | ● | ● | ● | | | ● | | ● | ● | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRP048V480W1BN | ● | ● | ● | ● | ● | | | ● | | | | ● | | ● | ● | ● | | ● | ● | ● | | ● |
| DRC-24V10W1AZ | ● | ● | ● | ● | ● | | ● | | | | | | | ● | ● | ● | | | ● | | | ● |
| DRC-24V100W1AZ | ● | ● | ● | ● | ● | | ● | | | | | | | ● | ● | ● | | | ● | | ● | |
| DRR-20A | ● | ● | ● | ● | ● | | | | | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRR-20N | ● | ● | ● | ● | ● | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRR-40A | ● | ● | ● | ● | ● | | | | | ● | ● | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRR-40N | ● | ● | ● | ● | ● | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | | ● |
| DRB-24V020ABA | ● | ● | ● | ● | ● | | | ● | | ● | ● | | | ● | ● | ● | | ● | ● | ● | | ● |
| DRB-24V020ABN | ● | ● | ● | ● | ● | | | ● | | | | | | ● | ● | ● | | ● | ● | ● | | ● |



| | CE | CB Scheme to IEC 60950-1 | SIQ or TUV or NEMKO to EN 60950-1 | UL 60950-1 | UL 508 | UL 1310 | NEC Class 2 | CSA C22.2 No. 107.1-01 | CSA C22.2 No. 60950-1 | ATEX EN 60079-15 | CSA C22.2 No. 213 and ANSI/ISA-12.12.09 | CCC (China) | SEMI F47 | RoHS Directive 2011/65/EU | EN 61000-3-2 (PFC) | EN 61000-3-3 (Flicker) | EN 61000-6-1 (EMC-Immunity) | EN 61000-6-2 (EMC-Immunity) | EN 55024 | EN 55011 Class B | EN 55022 Class A | EN 55022 Class B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PMC-05V015W1AA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-05V035W1AA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-05V050W1AA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-12V035W1AA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-12V050W1AA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-12V100W1AA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-12V150W1B□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-24V035W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-24V050W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-24V075W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-24V100W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-24V150W1A□ | ● | ● | ● | ● | | | | | | | | | | ● | | ● | | | ● | | | ● |
| PMC-24V150W1B□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-24V150W2AA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-24V300W1BA | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMC-DSPV100W1A | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-12V35W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-12V50W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-12V100W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-12V150W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-24V35W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-24V50W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-24V100W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PM□-24V150W1A□ | ● | ● | ● | ● | | | | | | | | ● | | ● | ● | ● | | | ● | | | ● |
| PMT-24V350W1AG | | | | ● | | | | | | | | | | ● | | | | | | | | |
| PMT-24V350W1AK | ● | ● | ● | | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PMT-4.2V350W1AM | | | | ● | | | | | | | | | | ● | | | | | ● | | ● | |
| PMT-5V350W1AM | | | | ● | | | | | | | | | | ● | | | | | ● | | ● | |
| PJ-12V15W□NA | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-12V30W□NA | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-12V50W□NA | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-12V100W□□A | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-12V150W□□A | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-24V30W□NA | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-24V50W□NA | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-24V100W□□A | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-24V150W□□A | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-5V15W□NA | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |
| PJ-48V50W□NA | ● | ● | ● | ● | | | | | | | | | | ● | ● | ● | | | ● | | | ● |

# Notes

Notes

# Notes



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