24V 240W 1 Phase / PJB-24V240W□□□



PJB

Highlights & Features

- Universal AC Input voltage range
- Up to 92.5% efficiency
- Power Boost of 200% for 10 seconds
- High PF > 0.97 and conforms to harmonic current
- IEC/EN 61000-3-2, Class A
- Conformal coating on PCBA to protect against common dust and chemical pollutants
- Versatile configuration options: Open Frame, L Frame, Enclosed
- Remote ON/OFF option for selected models
- Design compliance with Japan PSE (DENAN)

Safety Standards





CB Certified for worldwide use / PSE Compliance

Model Number: PJB-24V240W□□□

Open Frame

Enclosed

Unit Weight: Dimensions (L x W x D): 0.44 kg (1.14 lb) 180 x 84 x 42 mm (7.08 x 3.30 x 1.65 inch) 0.70 kg (1.54 lb) 212 x 98 x 59 mm (8.35 x 3.86 x 2.32 inch)

General Description

The Open frame power supply PJB-24V240W \square comes with universal AC input at 85Vac to 264Vac. Other features include low leakage / Inrush current and conformal coating on the PCBAs to provide protection against dust and chemical pollutants. The built-in active PFC provides PF > 0.97 and fulfills Harmonic Current Emission according to IEC/EN 61000-3-2. The feature built-in Power Boost of 200% for 10 seconds enables reserve power to be always available for reliable startup of loads with high inrush current, thus eliminating the need of a more expensive power supply unit at higher power rating. Metal chassis and case cover are available as options for different installation preferences.

The product is certified for EMI standards according to EN 55032 and EMS according to EN 55024. The products conform to major international safety standards according to EN/UL 62368-1 standards and are fully compliant with RoHS Directive for environmental protection.

Model Information

PJB Open Frame Power Supply

| Model Number | Input Voltage Range | Rated Output Voltage | Rated Output Current |
|-------------------|------------------------|----------------------|----------------------|
| PJB-24V240W □ □ □ | 85-264Vac (120-370Vdc) | 24Vdc | 10A |

Model Numbering

| | | | | | CC Code | |
|------------|-------------------------------------|----------------|--------------|----------------|--|----------|
| PJ | B - | 24V | 240W | | | |
| Open Frame | Product Type B – Power Boost Series | Output Voltage | Output Power | B – Open Frame | Remote ON/OFF Function N – No Remote ON/OFF R – With Remote ON/OFF | A – JST* |

*Options







24V 240W 1 Phase / PJB-24V240W □ □ □

Specifications

Input Ratings / Characteristics

| Nominal Input Voltage | | 100-240Vac | |
|---|--|--|--|
| Input Voltage Range | | 85-264Vac | |
| Nominal Input Frequency | | 50-60Hz | |
| Input Frequency Range | | 47-63Hz | |
| DC Input Voltage Range* | | 120-370Vdc | |
| Input Current | | 2.8A typ. @ 100Vac, 1.5A typ. @ 200Vac | |
| Efficiency at 100% Load | | 91% typ. @ 100Vac, 92.5% typ. @ 200Vac | |
| Max Power Dissipation 0% load 100% load | | < 1.5W @ 100Vac < 6.0W @ 100Vac < 24W @ 100Vac | PJB-24V240W□R□, Output OFF PJB-24V240W□N□ PJB-24V240W□R□, PJB-24V240W□N□ |
| Max Inrush Current (Cold Start) | | 15A typ. @ 100Vac, 30A typ. @ 200Vac | |
| Power Factor at 100% Load | | 0.98 typ. @ 100Vac, 0.97 typ. @ 200Vac | |
| Leakage Current | | 0.2mA @ 100Vac, 0.4mA @ 200Vac | |

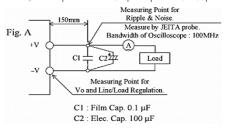
^{*}Fulfills test conditions for DC input. Safety approval for DC input can be obtained upon request.

Output Ratings / Characteristics**

| Nominal Output Voltage | 24Vdc |
|---|--|
| Factory Set Point Tolerance | 24Vdc ± 1% |
| Output Voltage Adjustment Range | 21.6-26.4Vdc |
| Output Current | 10A (continuously operating at 24V) 20A (Power Boost for 10 seconds at 24V, refer to the details in the Functions section) |
| Output Power | 240W (continuously operating at 24V) 480W (Power Boost for 10 seconds at 24V, refer to the details in the Functions section) |
| Line Regulation | < 96mV |
| Load Regulation | < 150mV |
| Temperature Coefficient | < 0.02% / °C |
| PARD*** (20MHz) | < 150mVpp @ > 0°C to 50°C < 180mVpp @ -10°C to 0°C |
| Start-up Time | 350ms typ. @ 100Vac (100% load) |
| Hold-up Time | 20ms typ. @ 100Vac (100% load) |
| Dynamic Response (Overshoot & Undershoot O/P Voltage) | ± 5% @ 0-50% load and 50-100% load (Slew Rate: 0.1A/µS) |
| Start-up with Capacitive Loads | 8,000µF Max |
| | |

^{**}For power de-rating from 50°C to 70°C , see power de-rating on page 3.

^{***}PARD is measured with an AC coupling mode, 150mm wires, and in parallel with 0.1µF capacitor & 100µF electrolytic capacitor.





24V 240W 1 Phase / PJB-24V240W□□□

Mechanical

| Case Cover / Chassis | | SGCC |
|-----------------------------------|------------|--|
| Dimensions | Open Frame | 180 x 84 x 42 mm (7.08 x 3.30 x 1.65 inch) |
| | Enclosed | 212 x 98 x 59 mm (8.35 x 3.86 x 2.32 inch) |
| Unit Weight | Open Frame | 0.44 kg (1.4 lb) |
| | Enclosed | 0.70 kg (1.54 lb) |
| Indicator | | NA |
| Cooling System | | Convection / Forced Cooling |
| Terminal | Input | JST B3P5-VH (LF)(SN) |
| | Output (-) | JST B7P-VH (LF)(SN), |
| | Output (+) | JST B6P-VH (LF)(SN) |
| Wire | | AWG 22-18 |
| Noise (1 Meter from power supply) | | Sound Pressure Level (SPL) < 25dBA |

Environment

| Surrounding Air Temperature | Operating | -10°C to +70°C |
|-----------------------------|--------------------------------------|--|
| | Storage | -25°C to +85°C |
| Power De-rating | Temperature (Mounting Orientation A) | Convection Open Frame / L Frame: > 50°C de-rate power by 2% / °C Enclosed: > 40°C de-rate power by 2% / °C |
| | | Forced Cooling Open Frame / L Frame: > 60°C de-rate power by 2% / °C Enclosed: > 50°C de-rate power by 2% / °C |
| | In must Valtage | (For other mounting orientations, please see pages 11-12) |
| | Input Voltage | < 90Vac de-rate power by 2% / V |
| Operating Humidity | | 5 to 95% RH (Non-Condensing) |
| Operating Altitude | | 0 to 5,000 Meters (16,400 ft.) for ITE |
| Shock Test (Non-Operating) | | IEC 60068-2-27, Half Sine Wave: 50G for a duration of 11ms, 3 shocks for each 3 directions |
| Vibration (Operating) | | IEC 60068-2-6, Sine Wave: 10Hz to 55Hz @ 19.6m/S² (2G peak); 10 min per cycle, 60 min per axis for all X, Y, Z direction |
| Pollution Degree | | 2 |

Protections

| Overvoltage | 27.6-33.6V, Latch Mode |
|--------------------------|--|
| Overload / Overcurrent | > 205% of rated load current, Hiccup Mode, Non-Latching (Auto-Recovery) |
| Over Temperature | Latch Mode |
| Short Circuit | Hiccup Mode, Non-Latching (Auto-Recovery when the fault is removed) |
| Internal Fuse | T8AH |
| Protection Against Shock | Class I with PE* connection |

^{*}PE: Primary Earth



24V 240W 1 Phase / PJB-24V240W□□□

Reliability Data

| MTBF | JEITA RCR-9102B | > 200,000 hrs. |
|------------------------|-----------------|------------------------------------|
| Expected Cap Life Time | | 10 years (115Vac, 50% load @ 40°C) |

Safety Standards / Directives

| Safety Entry Low Voltage | | SELV (EN 60950-1) |
|--------------------------|-------------------|---|
| Electrical Safety TU | | EN 60950-1 / EN 62368-1 |
| | PSE Compliance | Design to meet DENAN at 100Vac - 240Vac |
| | UL/cUL recognized | UL 62368-1 |
| | CB scheme | IEC 60950-1 / IEC 62368-1 |
| CE | | In conformance with EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU |
| Galvanic Isolation | Input to Output | 3.0KVac |
| | Input to Ground | 2.0KVac |
| | Output to Ground | 0.5KVac |

EMC

| Emissions (CE & RE) | | CISPR 32, EN 550 | 32, FCC Title 47: Class | В |
|---|----------------|--|--|---|
| Immunity | | EN 55024 | | |
| Electrostatic Discharge | IEC 61000-4-2 | Level 4 Criteria A ¹⁾ Air Discharge: 15kV Contact Discharge: 8kV | | |
| Radiated Field | IEC 61000-4-3 | Level 3 Criteria A ¹⁾ 80MHz-1GHz, 10V | /M with 1kHz tone / 80% | 6 modulation |
| Electrical Fast Transient / Burst | IEC 61000-4-4 | Level 4 Criteria A ¹⁾ 4kV | 2010 0.110.10.71 | |
| Surge | IEC 61000-4-5 | Level 4 Criteria A ¹⁾ Common Mode ³⁾ : 4 Differential Mode ⁴⁾ : | | |
| Conducted | IEC 61000-4-6 | Level 3 Criteria A ¹⁾ 150kHz-80MHz, 10Vrms | | |
| Power Frequency Magnetic Fields | IEC 61000-4-8 | Level 4 Criteria A ¹⁾ Magnetic field strength 30A/Meter | | |
| Voltage Dips and Interruptions | IEC 61000-4-11 | 0% of 100Vac 40% of 100Vac 70% of 100Vac 0% of 200Vac 40% of 200Vac 70% of 200Vac | 20ms, 5000ms 200ms 500ms 20ms, 5000ms 200ms 500ms | Criteria B ²⁾ |
| Harmonic Current Emission | | IEC/EN 61000-3-2, Class A and Class D | | |
| Voltage Fluctuation and Flicker | | IEC/EN 61000-3-3 | | |
| Voltage Sag Immunity SEMI F47 – 0706 | | 80% of 200Vac 70% of 200Vac 50% of 200Vac | 160Vac, 1000ms 140Vac, 500ms 100Vac, 200ms | Criteria A ¹⁾ Criteria A ¹⁾ Criteria A ¹⁾ |

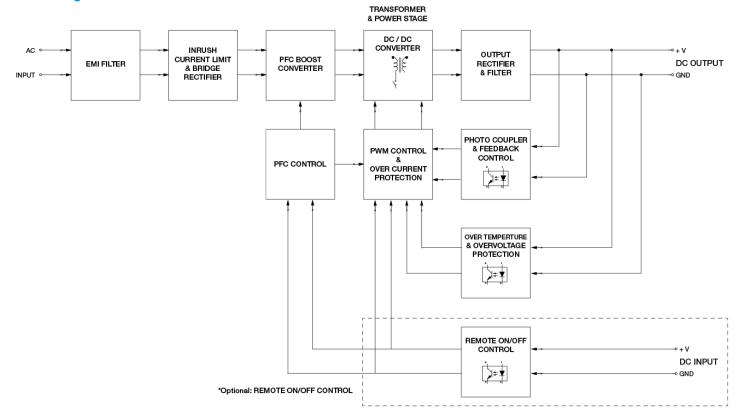
¹⁾ Criteria A: Normal performance within the specification limits



²⁾ Criteria B: Temporary degradation or loss of function which is self-recoverable 3) Asymmetrical: Common mode (Line to earth) 4) Symmetrical: Differential mode (Line to line)

24V 240W 1 Phase / PJB-24V240W □ □ □

Block Diagram



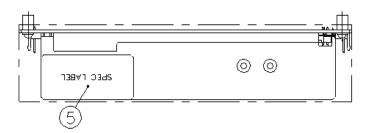


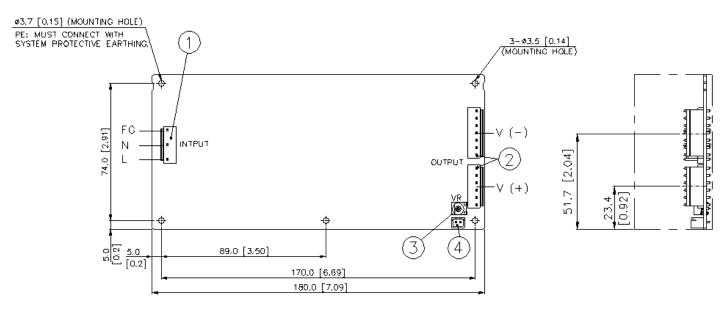
24V 240W 1 Phase / PJB-24V240W□□□

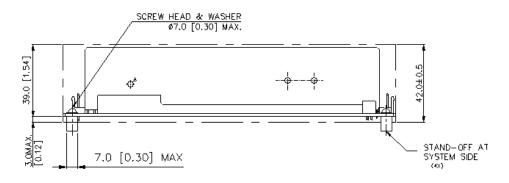
Dimensions

PJB-24V240WB□A (Open Frame) with JST Connector

L x W x D: 180 x 84 x 42 mm [7.08 x 3.30 x 1.65 inch]







| Item | Device Description |
|------|------------------------------|
| 1 | Input Connector (CN1) |
| 2 | Output Connector (CN2, CN3) |
| 3 | VR |
| 4 | Remote ON/OFF (JST B2B-XH-A) |
| 5 | Spec Label |

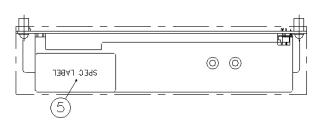
- Dimensions are in mm [inch]
- For information on Mounting Torque, and I/O Connector and Housing, please refer to the Instruction Manual.

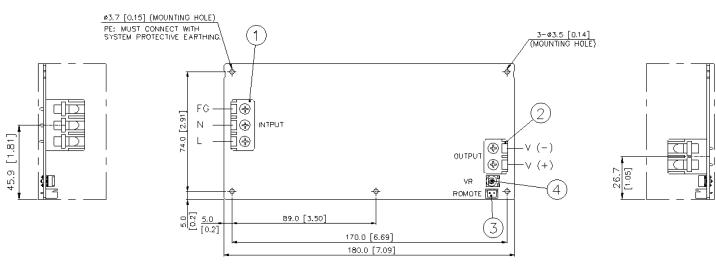


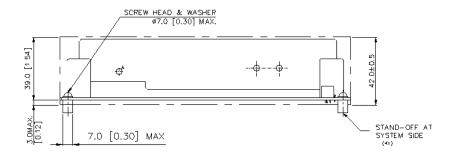
24V 240W 1 Phase / PJB-24V240W□□□

PJB-24V240WB□J (Open Frame) with Emuden Connector

L x W x D: 180 x 84 x 42 mm [7.08 x 3.30 x 1.65 inch]





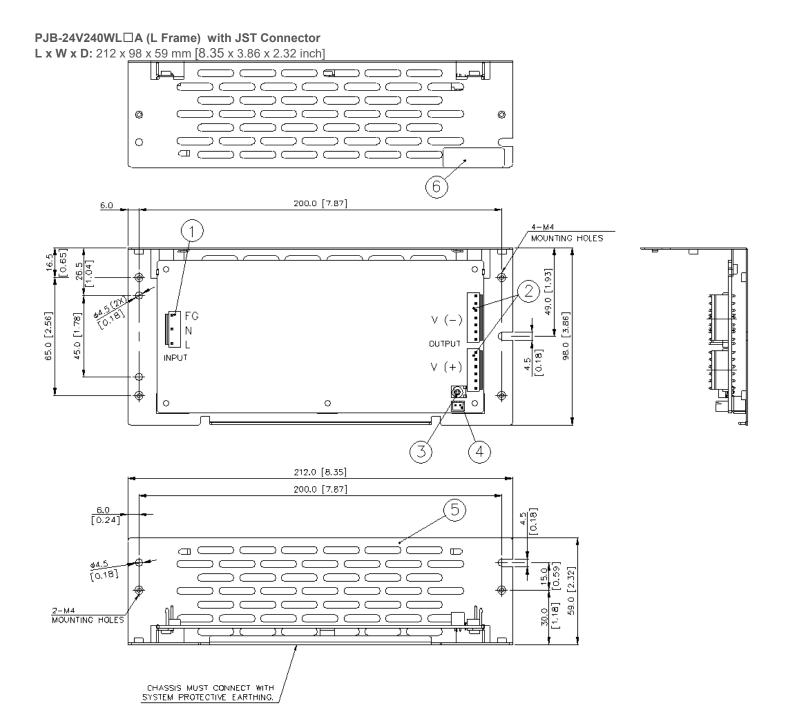


| Item | Device Description |
|------|------------------------------|
| 1 | Input Connector (CN1) |
| 2 | Output Connector (CN102) |
| 3 | VR |
| 4 | Remote ON/OFF (JST B2B-XH-A) |
| 5 | Spec Label |

- Dimensions are in mm [inch]
- For information on Mounting Torque, and I/O Connector and Housing, please refer to the Instruction Manual.



24V 240W 1 Phase / PJB-24V240W□□□



| Item | Device Description | | | | |
|------|------------------------------|--|--|--|--|
| 1 | Input Connector (CN1) | | | | |
| 2 | Output Connector (CN2, CN3) | | | | |
| 3 | VR | | | | |
| 4 | Remote ON/OFF (JST B2B-XH-A) | | | | |
| 5 | Chassis | | | | |
| 6 | Rating Label | | | | |

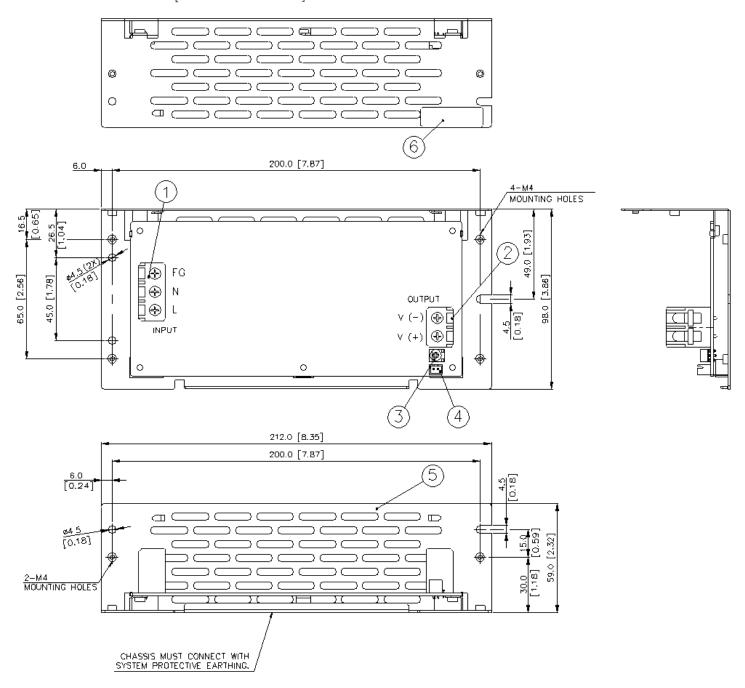
- Dimensions are in mm [inch]
- For information on Mounting Torque, and I/O Connector and Housing, please refer to the Instruction Manual.



24V 240W 1 Phase / PJB-24V240W 🗆 🗆

PJB-24V240WL□J (L Frame) with Emuden Connector

L x W x D: 212 x 98 x 59 mm [8.35 x 3.86 x 2.32 inch]



| Item | Device Description | | | |
|------|------------------------------|--|--|--|
| 1 | Input Connector (CN1) | | | |
| 2 | Output Connector (CN102) | | | |
| 3 | VR | | | |
| 4 | Remote ON/OFF (JST B2B-XH-A) | | | |
| 5 | Chassis | | | |
| 6 | Rating Label | | | |

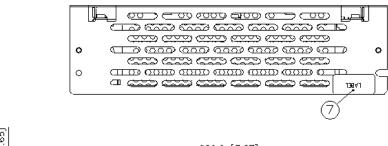
- Dimensions are in mm [inch]
- For information on Mounting Torque, and I/O Connector and Housing, please refer to the Instruction Manual.

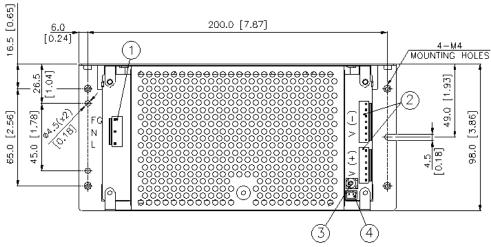


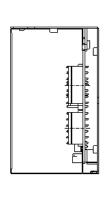
24V 240W 1 Phase / PJB-24V240W□□□

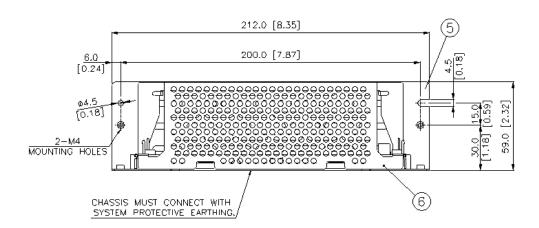
PJB-24V240WC□A (Enclosed) with JST Connector

L x W x D: 212 x 98 x 59 mm [8.35 x 3.86 x 2.32 inch]









| - B. I | 1 - 4 | 4 - |
|--------|-------|-----|
| - N | IO. | ГΩ |
| | | |

| Item | m Device Description | | | | |
|-------------------------|------------------------------|--|--|--|--|
| 1 Input Connector (CN1) | | | | | |
| 2 | Output Connector (CN2, CN3) | | | | |
| 3 | VR | | | | |
| 4 | Remote ON/OFF (JST B2B-XH-A) | | | | |
| 5 | Chassis | | | | |
| 6 | Cover | | | | |
| 7 | Rating Label | | | | |

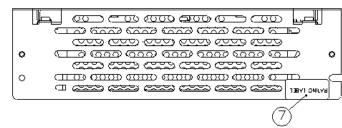
- Dimensions are in mm [inch]
- For information on Mounting Torque, and I/O Connector and Housing, please refer to the Instruction Manual.

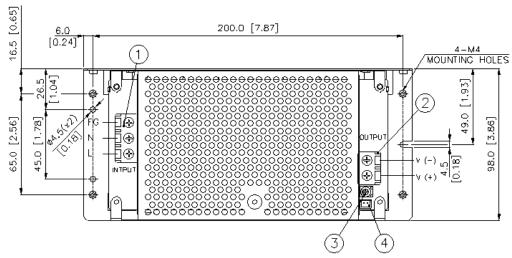


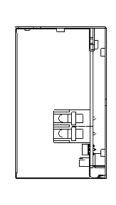
24V 240W 1 Phase / PJB-24V240W□□□

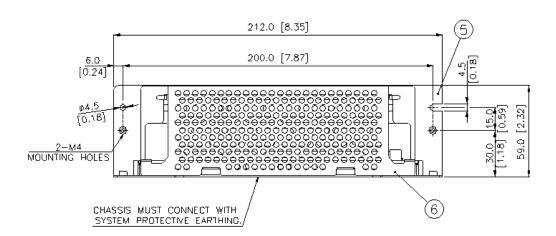
PJB-24V240WC□J (Enclosed) with Emuden Connector

L x W x D: 212 x 98 x 59 mm [8.35 x 3.86 x 2.32 inch]









| Item | Device Description | | | | |
|----------------------------|------------------------------|--|--|--|--|
| 1 | Input Connector (CN1) | | | | |
| 2 Output Connector (CN102) | | | | | |
| 3 | VR | | | | |
| 4 | Remote ON/OFF (JST B2B-XH-A) | | | | |
| 5 | Chassis | | | | |
| 6 | Cover | | | | |
| 7 | Rating Label | | | | |

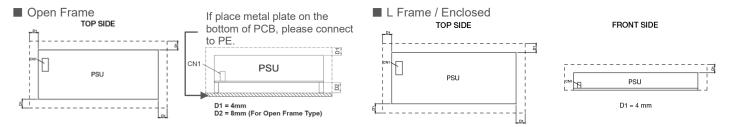
- Dimensions are in mm [inch]
- For information on Mounting Torque, and I/O Connector and Housing, please refer to the Instruction Manual.



24V 240W 1 Phase / PJB-24V240W□□□

Assembly & Installation

Assembly Reference



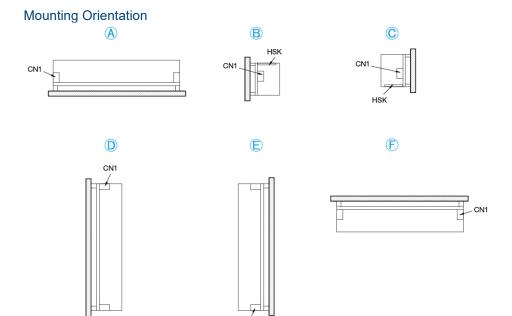
For safety reasons, please ensure the mounted device is kept at a) For Open Frame Type ≥ 8mm (0.315 inch), b) For with Case Type ≥ 4mm (0.16 inch) safety distance at all sides from other components and equipments. Please insert an insulation sheet between the system and product, if the safety distance is less than 4mm (0.16 inch).

- Use flexible cable (stranded or solid) of AWG No. 22-18. Please refer to Table 1 for the recommended Housing and Terminal.
- For the Remote ON/OFF function, use flexible cable (stranded or solid) of AWG No. 28-22.

| Table 1 | | Connector (Board Housing Mounting) | | Terminal | |
|---------------------------------|----|------------------------------------|--------|---------------|--|
| Input (JST) | | B3P5-VH(LF)(SN) | VHR-5N | | |
| Output (JST) | V- | B7P-VH(LF)(SN) | VHR-7N | SVH-21T-P1.1 | |
| | V+ | B6P-VH(LF)(SN) | VHR-6N | | |
| Remote ON/OFF Function (Option) | | B2B-XH-A(LF)(SN) | XHP-2 | SXH-001T-P0.6 | |



24V 240W 1 Phase / PJB-24V240W□□□



- Any excessive twisting or bending may damage the device's PCB. Please handle the device with care.
- The device is not recommended to be placed on low thermal conductive surfaces. For example, plastics.
- Prevent any foreign metal, particles or conductors from entering the device through the openings during installation. It may cause: -Electric shock; Safety hazard; Product failure.
- The power supply must be mounted by metal screws onto a grounded metal surface. It is highly recommended that the Earth terminal on the connector be connected to the grounded metal surface.

Engineering Data

Output Load De-rating VS Surrounding Air Temperature (Convection)

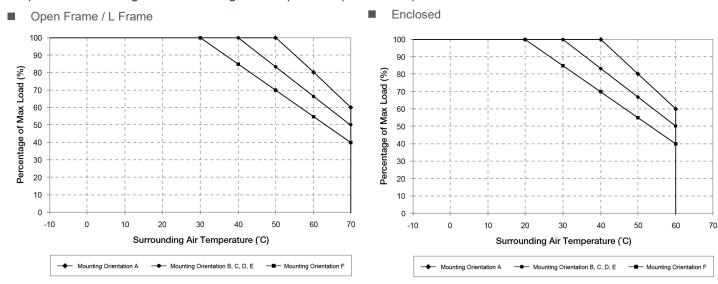


Fig.1.1 De-rating for Mounting Orientation A
> 50°C de-rate power by 2% / °C
De-rating for Mounting Orientation B, C, D, E
> 40°C de-rate power by 1.66% / °C
De-rating for Mounting Orientation F
> 30°C de-rate power by 1.5% / °C

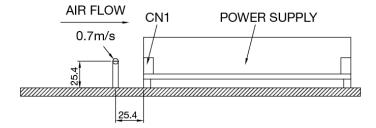
Fig.1.2 De-rating for Mounting Orientation A > 40°C de-rate power by 2% / °C
De-rating for Mounting Orientation B, C, D, E > 30°C de-rate power by 1.66% / °C
De-rating for Mounting Orientation F > 20°C de-rate power by 1.5% / °C

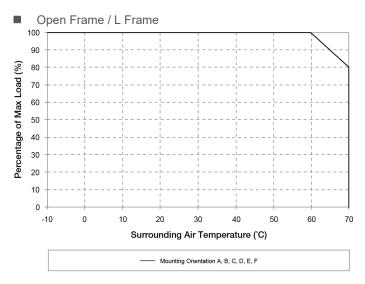


24V 240W 1 Phase / PJB-24V240W□□□

Output Load De-rating VS Surrounding Air Temperature (Forced Cooling: Air Velocity > 0.7m/s)

Air Flow Direction





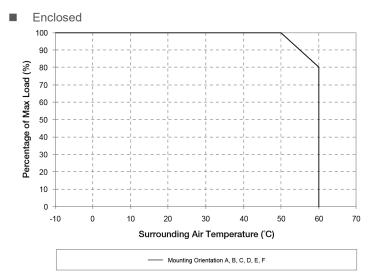


Fig.1.3 De-rating for Mounting Orientation A to F > 60°C de-rate power by 2% / °C

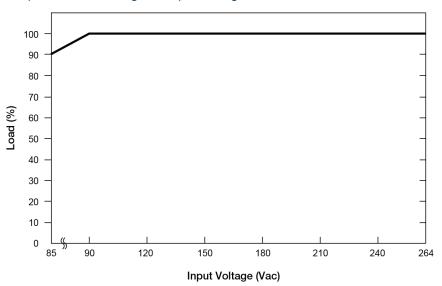
Fig.1.4 De-rating for Mounting Orientation A to F > 50°C de-rate power by 2% / °C

- 1. Power supply components may degrade, or be damaged, when the power supply is continuously used outside the shaded region, refer to the graphs shown above.
- 2. If the output capacity is not reduced when the surrounding air temperature is more than the upper limit temperature, the device will run into Over Temperature Protection. When activated, the output voltage will latch off, until the surrounding air temperature is lowered or the load is reduced as far as necessary to keep the device in working condition, and require removal/re-application of input AC voltage in order to restart.
- 3. Depending on the surrounding air temperature and output load delivered by the power supply, the device housing can be very hot!
- 4. If the device has to be mounted in any other orientation, please contact info@deltapsu.com for more details.



24V 240W 1 Phase / PJB-24V240W□□□

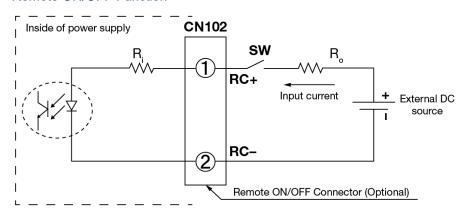
Output Load De-rating VS. Input Voltage



 No output power de-rating for the input voltage range from 90Vac to 264Vac

Functional Manual

Remote ON/OFF Function



You can remotely control the power supply unit to turn ON/OFF by using an external DC source. Follow the DC power source voltage and current limiting defined in the table below.

| Built-in Resistor R _i (ohm) | Voltage Between | Input Current (mA) | |
|--|-----------------|--------------------|----------------------|
| built-iii Resistor Ri (Ollili) | Output ON | Output OFF | input Current (IIIA) |
| 1k | 5-12.5 | 0-0.5 | 20 Max |

- 1. Remote ON/OFF circuits are isolated from input, output and PE.
- Please check if the polarity of the wire connector is the same as the external DC source. If not, the power would not turn on and the internal components may be damaged.
- 3. You do not need an external resistance R₀ for current limit while the output voltage of external DC source is within the range of 5-12.5V. If the output voltage exceeds 12.5V, please use the following equation for the value of current limit resistance R₀.

$$R_O = \frac{Vcc - (3.5 + 0.006R_i)}{0.006}$$



24V 240W 1 Phase / PJB-24V240W□□□

Functions

Start-up Time

The time required for the output voltage to reach 90% of its final steady state set value, after the input voltage is applied.

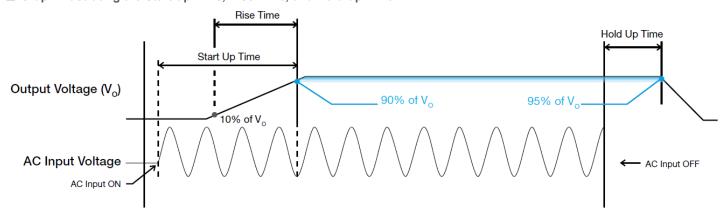
Rise Time

The time required for the output voltage to change from 10% to 90% of its final steady state set value.

Hold-up Time

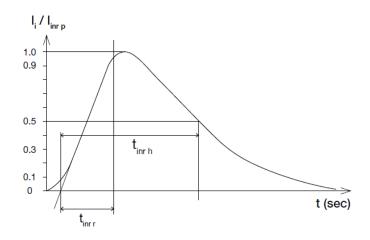
Time between the collapse of the AC input voltage, and the output falling to 95% of its steady state set value.

■ Graph illustrating the Start-up Time, Rise Time, and Hold-up Time



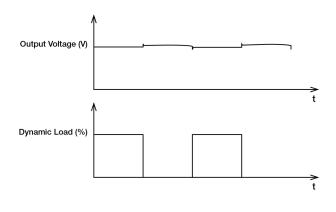
Inrush Current

Inrush current is the peak, instantaneous, input current measured and, occurs when the input voltage is first applied. For AC input voltages, the maximum peak value of inrush current will occur during the first half cycle of the applied AC voltage. This peak value decreases exponentially during subsequent cycles of AC voltage.



Dynamic Response

The power supply output voltage will remain within ±5% of its steady state value, when subjected to a dynamic load from 0 to 100% of its rated current.

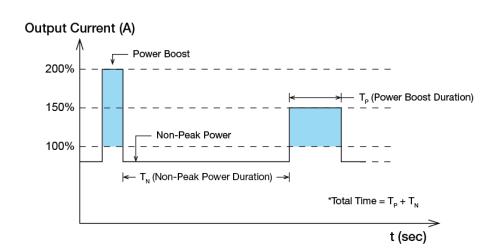




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Power Boost

Power Boost is the reserve power available constantly that allows reliable startup to support sudden and short spike of loads with high inrush current typically during turn on to remove the need of more expensive higher rated power supply unit. After the output has reached its steady state set value, the power supply can support surge loads with a higher short-term power demand up to 200% of maximum rated load (Io Max), for a maximum duration of 10 seconds. The Power Boost is also available to repeatedly basis with according to the condition of an average (R.M.S) output power shall not exceed continuous operating condition or refer to duty cycle calculation below.



$$Duty\ cycle\ (\%) = \frac{T_P}{Total\ Time}\ \ ;\ (T_P \leq 10\ sec)$$

$$Average\ Output\ Power\ (P_{Avg}) = \frac{(Power\ Boost\ \times T_P) + (Non\text{-}Peak\ Power\ \times T_N)}{Total\ Time}$$

OR

$$Non\text{-}Peak\ Power = \frac{\left(P_{Avg} \times Total\ Time\right) - \left(Power\ Boost\ \times T_P\right)}{T_N}$$

An example of Power Boost and Average Output Power

| Power Boost | Peak Power (W _P) | Power Boost Duration (T _P) | Duty Cycle | Non-Peak Power (W _N) | Non-Peak Power Duration (T _N) | Total Time (T) |
|-------------|---------------------------------|--|------------|-------------------------------------|---|-------------------|
| 200% | 480W | 10 sec | 15% | 197W | 56.7 sec | 66.67 sec |
| 200% | 480W | 5 sec | 15% | 197W | 28.33 sec | 33.3 sec |
| 150% | 360W | 10 sec | 40% | 160W | 15 sec | 25 sec |
| 150% | 360W | 5 sec | 40% | 160W | 7.5 sec | 12.5 sec |

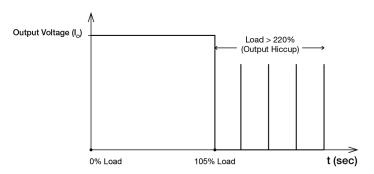
It is not recommended to prolong the duration of Power Boost to be longer than the specified duty cycle calculation, this may cause damage to the PSU.



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Overload & Overcurrent Protections (Auto-Recovery)

The power supply's Overload (OLP) and Overcurrent (OCP) Protections will be activated when output current exceeds 220% of Io (Max load). In such occurrence, the Vo (output voltage) will start to droop and once the power supply has reached its maximum power limit, the protection will be activated and the power supply will go into "Hiccup mode" (Auto-Recovery). The power supply will recover once the fault condition of the OLP and OCP is removed and Io is back within the specifications.



It is not recommended to prolong the duration of I_0 when it is <220% but >100%, since it may cause damage to the PSU.

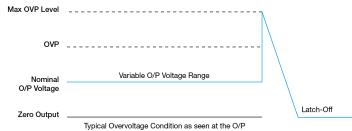
Short Circuit Protection (Auto-Recovery)

The power supply's output OLP/OCP function also provides protection against short circuits. When a short circuit is applied, the output current will operate in "Hiccup mode", as shown in the illustration in the OLP/OCP section on this page. The power supply will return to normal operation after the short circuit is removed.

Overvoltage Protection (Latch Mode)

The power supply's overvoltage circuit will be activated when its internal feedback circuit fails. The output voltage shall not exceed its specifications defined on Page 3 under "Protections". Power supply will latch off, and require removal/re-application of input AC voltage in order to restart.

The power supply should be latch.



Over Temperature Protection (Latch Mode)

As described in load de-rating section, the power supply also has Over Temperature Protection (OTP). In the event of a higher operating temperature at 100% load; or, when the operating temperature is beyond what is recommended in the de-rating graph, the OTP circuit will be activated. When activated, power supply will latch off, until the surrounding air temperature drops to its normal operating temperature or the load is reduced as recommended in the de-rating graph. Removal/re-application of input AC voltage will then be required in order to restart.



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Others

Conformal Coating



The Protective Coating Technology

Delta Electronics Group has designed the perfect dipping technique which penetrates everywhere including under device, and prevents leakage. The conformal coating dipping can be applied to PCBs or circuit board. The coating preserves the performance of precision electronic primarily by preventing ionizable contaminants such as salt from reaching circuit nodes, where the material slumps around sharp edges. This can be a problem especially in highly conversing atmosphere.

PFC - Norm EN 61000-3-2

Line Current Harmonic content



Typically, the input current waveform is not sinusoidal due to the periodical peak charging of the input capacitor. In industrial environment, complying with EN 61000-3-2 is only necessary under special conditions. Complying to this standard can have some technical drawbacks, such as lower efficiency as well as some commercial aspects such as higher purchasing costs. Frequently, the user does not profit from fulfilling this standard, therefore, it is important to know whether it is mandatory to meet this standard for a specific application.

Attention

Delta provides all information in the datasheets on an "AS IS" basis and does not offer any kind of warranty through the information for using the product. In the event of any discrepancy between the information in the catalog and datasheets, the datasheets shall prevail (please refer to www.DeltaPSU.com for the latest datasheets information). Delta shall have no liability of indemnification for any claim or action arising from any error for the provided information in the datasheets. Customer shall take its responsibility for evaluation of using the product before placing an order with Delta.

Delta reserves the right to make changes to the information described in the datasheets without notice.

