24V 480W 1 Phase / DRP024V480W1AA





Highlights & Features

- Universal AC input voltage
- Power will not de-rate for the entire input voltage range
- Power Boost of 150% for 3 seconds and 200% for 2 seconds
- Full corrosion resistant aluminium chassis
- SFMLF47 certified
- Hazardous Locations approval to ATEX and Class I, Div 2
- Certified according to IEC/EN/UL 62368-1

Safety Standards











CB Certified for worldwide use

Model Number: Unit Weight: Dimensions (L x W x D): 121 x 160 x 118.5 mm

DRP024V480W1AA 1.80 kg (3.97 lb) (4.76 x 6.30 x 4.66 inch)

General Description

The DRP024V480W1AA is part of the CliQ DIN rail power supply series from one of the world's leading power supply companies, Delta Electronics Group. The rugged metal is both shock and vibration resistant according to IEC 60068-2 standard. The product operates within a wide temperature range from -20°C to +80°C. The DRP024V480W1AA features universal AC input voltage range from 85Vac to 264Vac and the power will not de-rate for the entire input voltage range. The single phase power supply unit includes overvoltage, overcurrent, over temperature and short circuit protections. The product features built-in Power Boost of 150% for 3 seconds and 200% for 2 seconds. Such feature 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. Another great feature is the conformal coating on the PCBA which allows DRP024V480W1AA to be certified to ATEX and Class I, Div 2 for use in hazardous locations.

Model Information

CliQ DIN Rail Power Supply

| Model Number | Input Voltage Range | Rated Output Voltage | Rated Output Current | |
|----------------|------------------------|----------------------|----------------------|--|
| DRP024V480W1AA | 85-264Vac (120-375Vdc) | 24Vdc | 20.0A | |

Model Numbering

| DR | Р | 024V | 480W | 1 | A | Α |
|----------|--------------|----------------|--------------|--------------|-------------|------------|
| DIN Rail | Power Supply | Output Voltage | Output Power | Single Phase | CliQ Series | Metal Case |
| | | | | | | |
| | | | | | | |



24V 480W 1 Phase / DRP024V480W1AA

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* | | 120-375Vdc | |
| Input Current | | < 5.70A @ 115Vac, < 2.80A @ 230Vac | |
| Efficiency at 100% Load | | > 85.0% @ 115Vac, > 88.0% @ 230Vac | |
| Max Power Dissipation | 0% load | < 6.0W @ 115Vac & < 3.5W @ 230Vac | |
| | 100% load | < 40W @ 115Vac & < 35W @ 230Vac | |
| Max Inrush Current (Cold Start) | | < 50A @ 115Vac, < 150A @ 230Vac | |
| Power Factor at 100% Load | | > 0.97 @ 115Vac, > 0.95 @ 230Vac | |
| Leakage Current | | < 1.25mA @ 240Vac | |

^{*}Safety approval according to IEC/EN/UL 60950-1 and IEC/EN/UL 62368-1.

Output Ratings / Characteristics**

| Nominal Output Voltage | 24Vdc |
|--|--|
| Factory Set Point Tolerance | 24Vdc ± 2% |
| Output Voltage Adjustment Range | 22-28Vdc |
| Output Current | 20.0A (continuously operating at 24) 30.0A (Power Boost for 3 seconds at 24V, refer to the details in the Functions section) 40.0A (Power Boost for 2 seconds at 24V, refer to the details in the Functions section) |
| Output Power | 480W (continuously operating at 24V) 720W (Power Boost for 3 seconds at 24V, refer to the details in the Functions section) 960W (Power Boost for 2 seconds at 24V, refer to the details in the Functions section) |
| Line Regulation | < 0.5% typ. (@ 85-264Vac input, 100% load) |
| Load Regulation | < 1% typ. (@ 85-264Vac input, 0-100% load) |
| PARD*** (20MHz) | < 240mVpp |
| Rise Time | < 100ms @ nominal input (100% load) |
| Start-up Time | < 1,000ms @ nominal input (100% load) |
| Hold-up Time | > 20ms @ 115Vac & 230Vac (100% load) |
| Dynamic Response (Overshoot & Undershoot O/P Voltage) | ± 5% @ 85-264Vac input, 0-100% load (Slew Rate: 0.1A/µS, 50% duty cycle @ 5Hz to 1kHz) |
| Start-up with Capacitive Loads | 10,000μF Max |

^{**}For power de-rating from 50°C to 80°C, see power de-rating on page 3.



^{***}PARD is measured with an AC coupling mode, 5cm wires, and in parallel with 0.1µF ceramic capacitor & 47µF electrolytic capacitor.

24V 480W 1 Phase / DRP024V480W1AA

Mechanical

| Case Cover / Chassis | | Aluminium | |
|-----------------------------------|--------|--|--|
| Dimensions (L x W x D) | | 121 x 160 x 118.5 mm (4.76 x 6.30 x 4.66 inch) | |
| Unit Weight | | 1.80 kg (3.97 lb) | |
| Indicator | | Green LED (DC OK) | |
| Cooling System | | Convection | |
| Terminal | Input | 3 Pins (Rated 300V/20A) | |
| | Output | 4 Pins (Rated 300V/20A) | |
| Wire | Input | AWG 16-14 | |
| | Output | AWG 12-10 | |
| Mounting Rail | | Standard TS35 DIN Rail in accordance with EN 60715 | |
| Noise (1 Meter from power supply) | | Sound Pressure Level (SPL) < 40dBA | |

Environment

| Surrounding Air Temperature | Operating | -20°C to +80°C | | |
|-----------------------------------|-----------------|---|--|--|
| | Storage | -25°C to +85°C | | |
| Power De-rating Vertical Mounting | | > 50°C de-rate power by 2.5% / °C | | |
| Operating Humidity | | 5 to 95% RH (Non-Condensing | ng) | |
| Operating Altitude | | 0 to 2,000 Meters (6,560 ft.) | | |
| Shock Test | Non-Operating | IEC 60068-2-27, 30G (300m/S²) for a duration of 18ms, 3 times per direction, 6 times in total | | |
| Vibration | n Non-Operating | | Hz @ 50m/S² (5G peak); direction | |
| Over Voltage Category | | III | According to IEC/EN 62477-1 / EN 60204-1 (clearance and creepage distances) and IEC 62103 (safety part) | |
| Pollution Degree | | 2 | | |

Protections

| Overvoltage | 32V ±10%, SELV Output, Hiccup Mode, Non-Latching (Auto-Recovery) |
|--------------------------|---|
| Overload / Overcurrent | > 200% of rated load current, Hiccup Mode, Non-Latching (Auto-Recovery) |
| Over Temperature | < 80°C Surrounding Air Temperature @ 100% load, Non-Latching (Auto-Recovery) |
| Short Circuit | Hiccup Mode, Non-Latching (Auto-Recovery when the fault is removed) |
| Internal Fuse at L pin | T8A |
| Protection Against Shock | Class I with PE* connection |

^{*}PE: Primary Earth



24V 480W 1 Phase / DRP024V480W1AA

Reliability Data

| | > 300,000 hrs. as per Telcordia SR-332 I/P: 115Vac, O/P: 100% load, Ta: 25°C |
|------------------------|---|
| Expected Cap Life Time | 10 years (115Vac & 230Vac, 50% load @ 40°C) |

Safety Standards / Directives

| Electrical Equipment in Power Installation | ons | IEC/EN 62477-1 / IEC 62103 | | |
|--|--------------------|---|--|--|
| Electrical Safety | SIQ Bauart | EN 60950-1, EN 62368-1 | | |
| | UL/cUL recognized | UL 60950-1, UL 62368-1, CSA C22.2 No. 60950-1 (under alternate part number EOE13010007 of File No.E191395) | | |
| | CB Scheme | IEC 60950-1, IEC 62368-1 | | |
| Industrial Control Equipment | UL/cUL listed | UL 508 and CSA C22.2 No. 107.1-01 (under alternate part number EOE13010007 of File No. E315355) | | |
| | CSA | CSA C22.2 No. 107.1-01 (under alternate part number EOE13010007 of File No. 181564) | | |
| Hazardous Location / ATEX | Hazardous Location | cCSAus to CSA C22.2 No. 213-M1987, ANSI / ISA 12.12.01:2007 [Class I, Division 2, Group A, B, C, D T4, Ta= -20°C to +80°C (> +50°C derating)] | | |
| | ATEX | EN 60079-0:2009, EN 60079-15:2010 (II 3G Ex nA nC IIC T4 Gc, Ta= -20°C to +80°C (> +50°C derating)) | | |
| | | Certificate No. EPS 09 ATEX 1 215 X | | |
| CE | | In conformance with EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU | | |
| | | In conformance with Equipment for explosive atmospheres (ATEX) directive 2014/34/EU | | |
| Galvanic Isolation | Input to Output | 4.0KVac | | |
| | Input to Ground | 2.0KVac | | |
| | Output to Ground | 2.0KVac | | |



24V 480W 1 Phase / DRP024V480W1AA

EMC

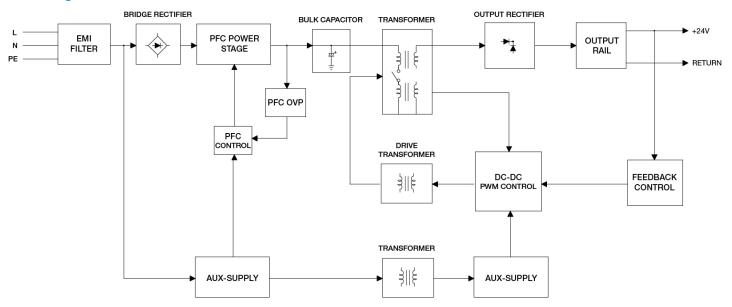
| | Generic Standards: CISPR 32, EN 55032, EN 55011, FCC Title 47: Class B | |
|----------------|---|--|
| mmunity | | |
| IEC 61000-4-2 | Level 4 Criteria A ¹⁾ Air Discharge: 15kV Contact Discharge: 8kV | |
| IEC 61000-4-3 | Level 3 Criteria A ¹⁾ 80MHz-1GHz, 10V/M, 80% modulation (1kHz) 1.4GHz-2GHz, 3V/M, 80% modulation (1kHz) 2GHz-2.7GHz, 1V/M, 80% modulation (1kHz) | |
| IEC 61000-4-4 | Level 3 Criteria A ¹⁾ 2kV | |
| IEC 61000-4-5 | Level 3 Criteria A ¹⁾ Common Mode ²⁾ : 2kV Differential Mode ³⁾ : 1kV | |
| IEC 61000-4-6 | Level 3 Criteria A ¹⁾ 150kHz-80MHz, 10Vrms | |
| IEC 61000-4-8 | Criteria A ¹⁾ 100A/Meter | |
| IEC 61000-4-11 | 100% dip; 1 cycle (20ms); Self Recoverable | |
| IEC 61000-4-12 | Level 3 Criteria A ¹⁾ Common Mode ²⁾ : 2kV Differential Mode ³⁾ : 1Kv | |
| | IEC/EN 61000-3-2, Class A | |
| | IEC/EN 61000-3-3 | |
| | SEMI F47 - 0706, at 100Vac | |
| | IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-8 | |

Criteria A: Normal performance within the specification limits
 Asymmetrical: Common mode (Line to earth)
 Symmetrical: Differential mode (Line to line)

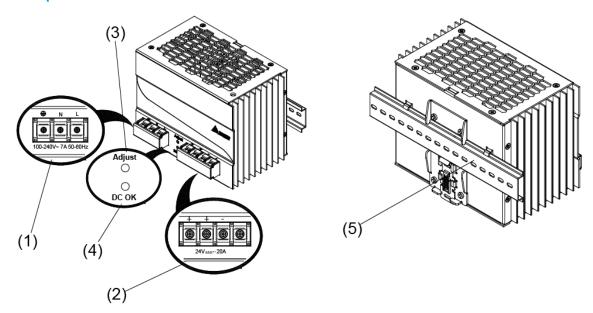


24V 480W 1 Phase / DRP024V480W1AA

Block Diagram



Device Description



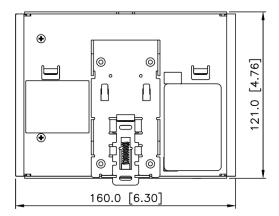
- Input terminal block connector
- 2) Output terminal block connector
- DC Voltage adjustment potentiometer
- 4) DC OK control LED (Green)
- Universal mounting rail system

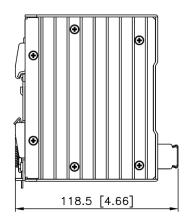


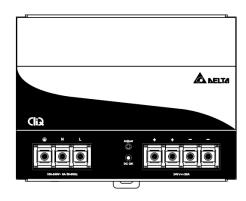
24V 480W 1 Phase / DRP024V480W1AA

Dimensions

L x W x D: 121 x 160 x 118.5 mm (4.76 x 6.30 x 4.66 inch)







Engineering Data

Output Load De-rating VS Surrounding Air Temperature

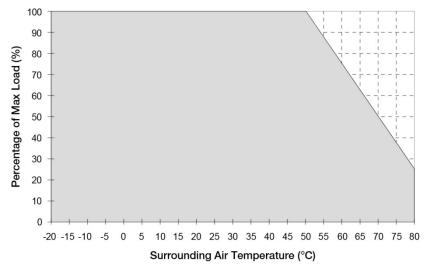


Fig. 1 De-rating for Vertical Mounting Orientation > 50°C de-rate power by 2.5% / °C

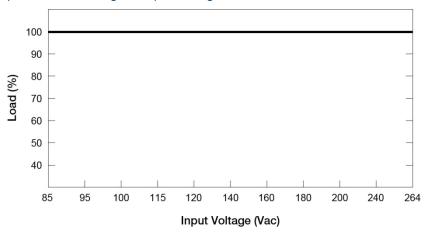
Note

- Power supply components may degrade, or be damaged, when the power supply is continuously used outside the shaded region, refer to the graph shown in Fig. 1.
- 2. If the output capacity is not reduced when the surrounding air temperature exceeds its specification as defined on Page 3 under "Environment", the device may run into Over Temperature Protection. When activated, the output voltage will go into bouncing mode and will recover when the surrounding air temperature is lowered or the load is reduced as far as necessary to keep the device in working condition.
- In order for the device to function in the manner intended, it is also necessary to keep a safety distance as recommended in the safety instructions while the device is in operation.
- Depending on the surrounding air temperature and output load delivered by the power supply, the device can be very hot!
- 5. If the device has to be mounted in any other orientation, please contact info@deltapsu.com for more details.



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Output Load De-rating VS Input Voltage



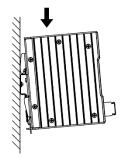
No output power de-rating across the entire input voltage range

Assembly & Installation

The power supply unit (PSU) can be mounted on 35mm DIN rails in accordance with EN 60715. The device should be installed with input terminal block at the bottom.

Each device is delivered ready to install.

Mounting



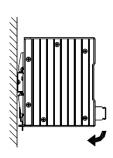
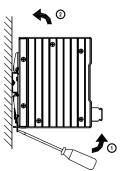


Fig. 2.1 Mounting

Snap on the DIN rail as shown in Fig. 2.1:

- Tilt the unit upwards and insert it onto the DIN rail.
- 2. Push downwards until stopped.
- 3. Press against the bottom front side for locking.
- 4. Shake the unit slightly to ensure that it is secured.

Dismounting



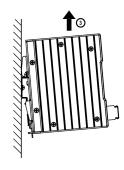


Fig. 2.2 Dismounting

To uninstall, pull or slide down the latch with screw driver as shown in Fig. 2.2. Then slide the power supply unit (PSU) in the opposite direction, release the latch and pull out the power supply unit (PSU) from the rail.

In accordance to EN 60950 / UL 60950 and EN 62368 / UL 62368, flexible cables require ferrules. Use appropriate copper cables designed to sustain operating temperature of at least 75°C or more to fulfill UL requirements.

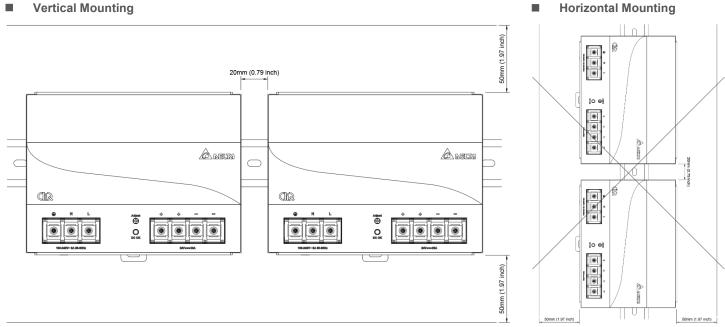
For stranded wires it is recommended to use suitable lug to crimp wires.



24V 480W 1 Phase / DRP024V480W1AA

Safety Instructions

Vertical Mounting



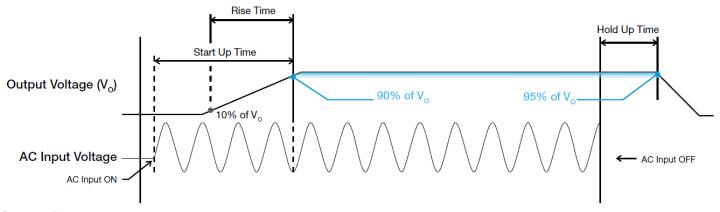
- ALWAYS switch mains of input power OFF before connecting and disconnecting the input voltage to the unit. If mains are not turned OFF, there is risk of explosion / severe damage.
- To guarantee sufficient convection cooling, keep a distance of 50mm (1.97 inch) above and below the device as well as a lateral distance of 20mm (0.79 inch) to other units.
- Note that the enclosure of the device can become very hot depending on the surrounding air temperature and load of the power supply. Risk of burns!
- Only plug in and unplug connectors when power is turned off!
- DO NOT insert any objects into the unit.
- Hazardous voltages may be present for up to 5 minutes after the input mains voltage is disconnected. Do not touch the unit during this time.
- The power supplies unit must be installed in an IP54 enclosure or cabinet in the final installation. The enclosure or cabinet must comply with EN 60079-0 or EN 60079-15.
- CAUTION: "For use in a controlled environment".
- Warning: Explosion Hazard Substitution of components may impair suitability for Class I, Division 2.
- Warning: Explosion Hazard Do not disconnect equipment unless the power has been switched off or the area is known to be non-hazardous.
- It is NOT advised to install in horizontal mounting orientation, since it may cause damage to the PSU.



24V 480W 1 Phase / DRP024V480W1AA

Functions

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



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

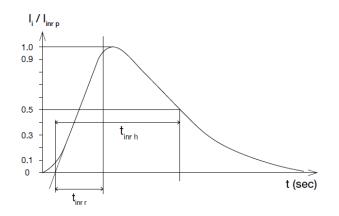
The time required for the output voltage to change from 10% to 90% of its final steady state set value.

Hold-up Time

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

Inrush Current

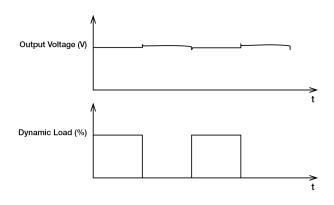
Inrush current is the peak, instantaneous, input current measured and, occurs when the input voltage is first applied. For AC input voltages, the maximum peak value of inrush current will occur during the first half cycle of the applied AC voltage. This peak value decreases exponentially during subsequent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



Dynamic Response

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

■ 50% duty cycle / 5Hz to 1kHz





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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 2 seconds, or 150% of maximum rated load for a maximum duration of 5 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.

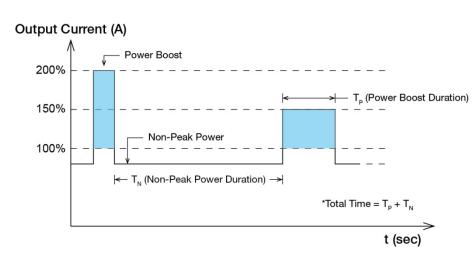


Fig. 3 Duty Cycle Calculation

$$Duty\ cycle\ (\%) = \frac{T_P}{Total\ Time}$$

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

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% | 960 | 2 sec | 5% | 455W | 38 sec | 40 sec |
| 150% | 720 | 3 sec | 10% | 453W | 27 sec | 30 sec |
| 150% | 720 | 3 sec | 35% | 349W | 5.5 sec | 8.5 sec |
| 120% | 576 | 6 sec | 20% | 456W | 24 sec | 30 sec |
| 120% | 576 | 6 sec | 35% | 428W | 11 sec | 17 sec |

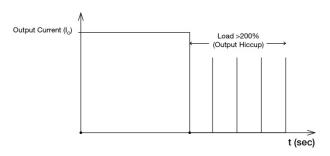
It is not recommended to prolong the duration of Power Boost to be longer than the specified duty cycle calculation, this may cause damage to the PSU.



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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 (Io) exceeds its specification as defined on Page 3 under "Protections". In such occurrence, the output voltage (V_0) will start to droop and once the power supply has reached its maximum power limit, the protection is 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.



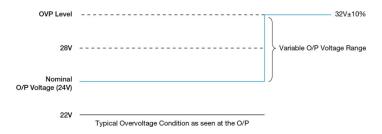
It is not recommended to prolong the duration of $I_{\rm O}$ when it is less than OLP/OCP point, but greater than 100%, since it may cause damage to the PSU.

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 (Auto-Recovery)

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". The power supply does not shut down but goes in 2nd level regulation at 30-32Vdc and continue to deliver the power. According to high output voltage which will be operating > 100% of rated load (32V × rated output current), if this condition persists, the power supply will sense OTP (Over Temperature Protection) and will go under hiccup mode. The power will return to normal operation once the fault condition is removed.



Over Temperature Protection (Auto-Recovery)

As mentioned above, the power supply also has Over Temperature Protection (OTP). In the event of a higher operating temperature at 100% load, the power supply will run into OTP when the operating temperature is beyond what is recommended in the de-rating graph. When activated, the output voltage will go into bouncing mode until the temperature drops to its normal operating temperature as recommended in the de-rating graph.

External Input Protection Device

The unit is protected at the L pin, with an internal fuse that cannot be replaced. The power supply has been tested and approved on 20A (UL) and 16A (IEC) branch circuits without additional protection device. An external protection device is only required if the supplying branch has an ampacity greater than above. Thus, if an external protective device is necessary, or, utilized, please refer a minimum value in instruction sheet with 13A B- or 10A C- characteristic breaker.



24V 480W 1 Phase / DRP024V480W1AA

Operating Mode

■ Redundant Operation

In order to ensure proper redundant operation for the power supply unit (PSU), the output voltage difference between the two units must be kept at 0.45~0.50V for 24V supplies. Follow simple steps given below to set them up for the redundant operation:

Step 1.

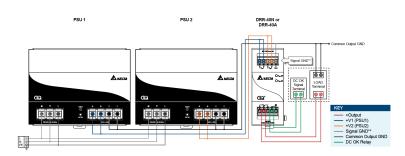
Measure output voltage of PSU 1 and PSU 2. If PSU 1 is the master unit, then V_0 of PSU 1 must be higher than PSU 2. In order to set the output voltage, individually connect the power supply to 50% of rated load at any line voltage from 85-264Vac, and set the PSU 1 and PSU 2 output voltage.

Step 2.

Connect the power supply units PSU 1 and PSU 2 to Vin 1 & Vin 2, respectively, of the DRR-40N (or 40A) module shown on the diagram on the right.

Step 3.

Connect the system load from V_{out} . Please note that output voltage V_{out} from DRR module will be = V_{O} (output voltage of power supply) – V_{drop}^* (in DRR module).



**The Signal GND in the DRR module is for the built-in LED and DC OK signals. The Output GND terminals from the two PSU's do not need to be connected to the Signal GND terminal.

Fig. 4 Redundant Operation Connection Diagram

*V_{drop} will vary from 0.60V to 0.90V (Typical 0.65V) depending on the load current and surrounding air temperature.

Parallel Operation

The power supply units (PSUs) can also be used for parallel operation in order to increase the output power. The difference in output voltage between the two units must be kept to within 25mV of each other. This difference must be verified with the same output load connected independently to each unit.

Parameters such as EMI, inrush current, leakage current, PARD, start up time will be different from those on the datasheet, when two units are connected in parallel. The user will need to verify that any differences will still allow the two power supplies connected in parallel will work properly in their product/application.

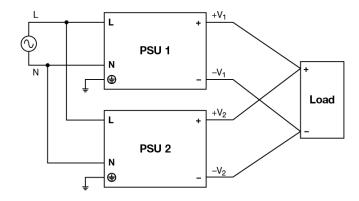


Fig. 5 Parallel Operation Connection Diagram



24V 480W 1 Phase / DRP024V480W1AA

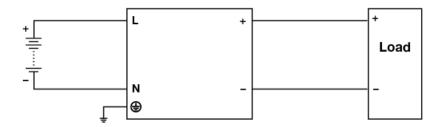


Fig. 6 DC Input Operation Connection Diagram

■ DC Input Operation

Step 1.

Use a battery or similar DC source.

Step 2

Connect +pole to L and -pole to N.

Step 3.

Connect the PE terminal to an earth wire or to the machine ground.

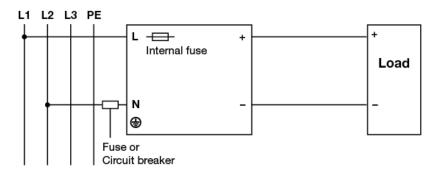


Fig. 7 2 of 3 Phase System Input Operation Connection Diagram

2 of 3 Phase System Input Operation

Delta's CliQ can use on 2 of 3 phase system. Please refer to the following step.

Step 1.

The input voltage applied from Line to Neutral is below the maximum rated input. The input voltage shall be below 240Vac +10%.

Step 2.

The external protector is needed on N (Neutral) input line to secure a safety. N line does not have internal fuse protection. An appropriate fuse or circuit breaker should be connected in series with N input line connection like the following.



24V 480W 1 Phase / DRP024V480W1AA

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 PCBAs 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.

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