

Force-GT DIN Rail Power Supply

DRF-480W series / DRF-□V480W1G□A

FORCE-GT

Highlights & Features

- Universal AC input voltage range
- Built-in constant current circuit for charging applications
- Full load operating temperature up to 60°C
- Cold start at -40°C
- Ultra-Slim design
- Long life electrolytic capacitor
- Built-in DC OK relay and LED indicator
- Conformal coating on PCBAs to protect against common dust and pollutants
- Certified with 80 PLUS Platinum for 115 V Industrial

Safety Standards



CB Certified for worldwide use

Model Number: DRF-□V480W1G□A
Unit Weight: 0.88 kg (1.94 lb)
Dimensions (H x W x D): 123.6 x 56 x 116.8 mm
(4.87 x 2.20 x 4.60 inch)

General Description

The Force-GT Series DIN rail industrial power supply features high power density and high efficiency. The Series offers overcurrent protection in constant current mode, making it suitable for charging applications. Conformal coating is applied on the PCBAs to protect against dust and pollutants often found in harsh industrial environments. The Series' electromagnetic radiated and conducted emissions are compliant with heavy industrial Class B Emission standard and Immunity standard, and complies with environmental protection standards RoHS Directive.

Model Information

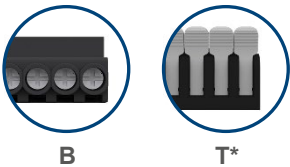
Force-GT DIN Rail Power Supply

| Model Number | Input Voltage Range | Rated Output Voltage | Rated Output Current |
|-----------------|---------------------|----------------------|----------------------|
| DRF-24V480W1G□A | 90-264 Vac | 24 Vdc | 20.0 A |
| DRF-48V480W1G□A | (127-375 Vdc) | 48 Vdc | 10.0 A |

Model Numbering

| DR | F – | □V | 480W | 1 | G | □ | A |
|----------|-----------------------------|------------------------------------------|--------------|--------------|------------------|--------------------------------------------------------------------|----------------|
| DIN Rail | Product Series F – Force | Output Voltage 24 – 24 V 48 – 48 V | Output Power | Single Phase | G – General Type | Connector Type B – Screw Terminal T – Spring Clamp Terminal* | Delta Standard |

*Options



Force-GT DIN Rail Power Supply

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Specifications

| Model Number | DRF-24V480W1G□A | DRF-48V480W1G□A |
|--------------|-----------------|-----------------|
|--------------|-----------------|-----------------|

Input Ratings / Characteristics

| | | |
|---------------------------------------------|--------------------------------------------|------------------------------|
| Nominal Input Voltage | 100-240 Vac | |
| Input Voltage Range | 90-264 Vac | |
| Nominal Input Frequency | 50-60 Hz | |
| Input Frequency Range | 47-63 Hz | |
| DC Input Voltage Range* ¹ | 127-375 Vdc | |
| Input Current | 4.7 A typ. @ 115 Vac, 2.4 A typ. @ 230 Vac | |
| Efficiency at 100% Load | 95.0% typ. @ 230 Vac | |
| Average Efficiency (25%, 50%, 75%, 100%) | 91.5% typ. @ 115 Vac | |
| No Load Power Consumption | 0.75 W typ. @ 115 Vac & 230 Vac | 1 W typ. @ 115 Vac & 230 Vac |
| Max Inrush Current (Cold Start) | 40 A typ. @ 230 Vac | |
| Power Factor at 100% Load | > 0.96 @ 115 Vac & > 0.93 @ 230 Vac | |
| Leakage Current | < 1.5 mA @ 240 Vac | |

*1 Power Supply can operate at DC Input voltage, please connect +pole to L, -pole to N and PE terminal to an earth wire or to the machine ground.

Output Ratings / Characteristics*²

| | | |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Nominal Output Voltage | 24 Vdc | 48 Vdc |
| Factory Set Point Tolerance | 24 Vdc ± 1% | 48 Vdc ± 1% |
| Output Voltage Adjustment Range | 24-28 Vdc | 48-55 Vdc |
| Output Current | 0-20.0 A | 0-10.0 A |
| Output Power | 480 W max | |
| Line Regulation | ± 0.5% @ 115 Vac & 230 Vac | |
| Load Regulation | ± 0.5% | ± 0.5% |
| PARD* ³ (20 MHz) | 100 mVpp typ. @ 0°C to +70°C 300 mVpp typ. @ -30°C to 0°C | 150 mVpp typ. @ 0°C to +70°C 450 mVpp typ. @ -30°C to 0°C |
| Rise Time | 30 ms typ. @ 115 Vac & 230Vac | |
| Start-up Time | 500 ms typ. @ 115 Vac & 230 Vac | 800 ms typ. @ 115 Vac & 230 Vac |
| Hold-up Time | 25 ms typ. @ 115 Vac & 230 Vac (100% load) | |
| Dynamic Response (Overshoot & Undershoot O/P Voltage) | ± 10% @ 115 Vac & 230 Vac input, 10-100% load (Slew Rate: 2.5 A/μS, 50% duty cycle @ 5 Hz & 10 kHz) | |
| Start-up with Capacitive Loads | 10,000 μF Max | 5,000 μF Max |
| Functional | DC OK Relay Contact | 30 V / 1 A The relay contact are normally "ON" (closed) when the output (Vout) is greater than 90% typ. of its rated value. |

*2 For power will be de-rating from 60°C to 70°C, and Vin < 100 Vac, see Engineering Data power de-rating information.

*3 PARD is measured with an AC coupling mode, 5 cm wires, and in parallel to end terminal with 0.1 μF ceramic capacitor & 47 μF electrolytic capacitor. PSU need to burn in around 5 minutes when AMB ≤ 0°C

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|--------------|-----------------|-----------------|
|--------------|-----------------|-----------------|

Mechanical

| | | |
|-----------------------------------|-----------|----------------------------------------------------------|
| Case Cover / Chassis | | Metal |
| Dimensions (H x W x D) | | 123.6 x 56 x 116.8 mm (4.87 x 2.20 x 4.60 inch) |
| Unit Weight | | 0.88 kg (1.94 lb) |
| Indicator | Green LED | DC OK |
| Cooling System | | Convection |
| Terminal*4 | Input | 3 Pins (Rated 300 V / 30 A) |
| | Output | 4 Pins (Rated 300 V / 30 A) |
| | DC OK | 2 Pins (Rated 300 V / 6 A) |
| Wire | Input | AWG 14-12 (Current rating can refer to "AWG Wire Table") |
| | Output | AWG 14-12 (Current rating can refer to "AWG Wire Table") |
| | DC OK | AWG 22-16 (Current rating can refer to "AWG Wire Table") |
| Mounting Rail | | Standard TS35 DIN Rail in accordance with EN 60715 |
| Noise (1 Meter from power supply) | | Sound Pressure Level (SPL) < 25 dBA |

*4 The torque at the screw terminal connector shall not exceed 5.2 Kgf-cm. (4.5 lbf.in)

Environment

| | | |
|-----------------------------|---------------|-------------------------------------------------------------------------------------------------|
| Surrounding Air Temperature | Operating | -30°C to +70°C (-40°C Cold Start) |
| | Storage | -40°C to +85°C |
| Power De-rating | Temperature | > 60°C de-rate power by 2.5 % / °C |
| | Input Voltage | < 100Vac de-rate power by 1% / Vac |
| Operating Humidity | | 5 to 90% RH (Non-Condensing) |
| Operating Altitude | | 0 to 5,000 Meters (16,400 ft.) |
| Shock Test | Non-Operating | IEC 60068-2-27, Half Sine Wave: 50 G for duration of 11 ms; 3 times per direction |
| Vibration | Operating | IEC 60068-2-6, Sine Wave: 10 Hz to 500 Hz; 4 G peak; 60 min per axis for all X, Y, Z directions |
| Over Voltage Category | | II (Compliance to EN 62477-1 OVC III with 2000 meters altitude) |
| Pollution Degree | | 2 |

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|--------------|-----------------|-----------------|
|--------------|-----------------|-----------------|

Protections

| | | |
|--------------------------|-----------------------------------------------------------------------------------------------------------|----------------------------------|
| Overvoltage | <34.0 V, SELV Output, Latch Mode | <68.0 V, SELV Output, Latch Mode |
| Overload / Overcurrent | 105 - 150% of rated load current, Auto-recovery Continuous current limit Mode* ⁵ (Vo > 80%) | |
| Over Temperature | Latch Mode | |
| Short Circuit | Hiccup Mode, Non-Latching (Auto-Recovery when the fault is removed) | |
| Internal Fust at L pin | T10 A / 250 V | |
| Protection Against Shock | Class I with PE* ⁶ connection | |

*⁵ Constant current limit protection for inductive and capacitive load applications

*⁶ PE: Primary Earth

Reliability Data

| | | |
|------------------------|-------------------------------------|-------------------------------------------------------------------|
| MTBF | Telcordia SR-332 | > 700,000 hrs I/P: 115 Vac & 230 Vac, O/P: 100% load, Ta: 25°C |
| Expected Cap Life Time | 10 years (230 Vac, 50% load @ 50°C) | |

Safety Standards / Directives

| | | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical Safety | CB scheme TUV Bauart UL/cUL EAC BSMI CCC | IEC 62368-1, IEC 60950-1, IEC 61010-1/-2-201 EN 62368-1, EN/BS 61010-1/-2-201 UL 62368-1, UL 61010-1/-2-201 TP TC 004/2011 CNS14336-1 GB4943.1 |
| CE | In conformance with EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU | |
| UKCA | In conformance with Electrical Equipment (Safety) Regulations 2016 and Electromagnetic Compatibility Regulations 2016 | |
| Galvanic Isolation | Input to Output | 4.0 kVac |
| | Input to Ground | 2.0 kVac |
| | Output to Ground | 1.5 kVac |
| | Output to DC OK | 500 Vac |

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|--------------|-----------------|-----------------|
|--------------|-----------------|-----------------|

EMC^{*7}

| | | | |
|-----------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Emissions (CE & RE) | | CISPR 32, EN/BS 55032, EN/BS 61000-6-4, AS/NZS CISPR32, EN/BS EN 61204-3, KS C 9832 Compliance to FCC Title 47, EN/BS 61000-6-3: Class B | |
| Component Power Supply for General Use | | EN/BS EN 61204-3 | |
| Immunity | | EN 55035, KS C 9835, EN/BS EN 61000-6-2 Compliance to EN/BS EN 61000-6-1 | |
| Electrostatic Discharge | IEC 61000-4-2 | Level 4 Criteria A ¹⁾ Air Discharge: 15k V Contact Discharge: 8 kV | |
| Radiated Field | IEC 61000-4-3 | Criteria A ¹⁾ 80 MHz – 1 GHz, 10 V/M, 80% Modulation (1 kHz) 1.4 GHz – 2 GHz, 3 V/M, 80% Modulation (1 kHz) 2 GHz – 2.7 GHz, 1 V/M, 80% Modulation (1 kHz) | |
| Electrical Fast Transient / Burst | IEC 61000-4-4 | Level 3 Criteria A ¹⁾ 2 kV | |
| Surge | IEC 61000-4-5 | Level 4 Criteria A ¹⁾ Common Mode ⁴⁾ : 4 kV Differential Mode ⁵⁾ : 2 kV | |
| Conducted | IEC 61000-4-6 | Level 3 Criteria A ¹⁾ 150 kHz – 80 MHz, 10 Vrms | |
| Power Frequency Magnetic Fields | IEC 61000-4-8 | Level 4 Criteria A ¹⁾ 30 A/m | |
| Voltage Dips and Interruptions | IEC 61000-4-11 | 0% residual; 1 cycle, Criteria B ²⁾ 40% residual; 10 cycle, Criteria C ³⁾ 70% residual; 25 cycle, Criteria C ³⁾ | |
| Harmonic Current Emission | | IEC/EN/BS EN 61000-3-2, Class A & Class D | |
| Voltage Fluctuation and Flicker | | IEC/EN/BS EN 61000-3-3 | |
| Voltage Sag Immunity SEMI F47 – 0706 | | 80% of 200 Vac 70% of 200 Vac 50% of 200 Vac | 160 Vac, 1000 ms 140 Vac, 500 ms 100 Vac, 200 ms 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) Criteria C: Output out of regulation, shuts down during test (Need to recycle AC power cord to normal operation after test)

4) Asymmetrical: Common mode (Line to earth)

5) Symmetrical: Differential mode (Line to line)

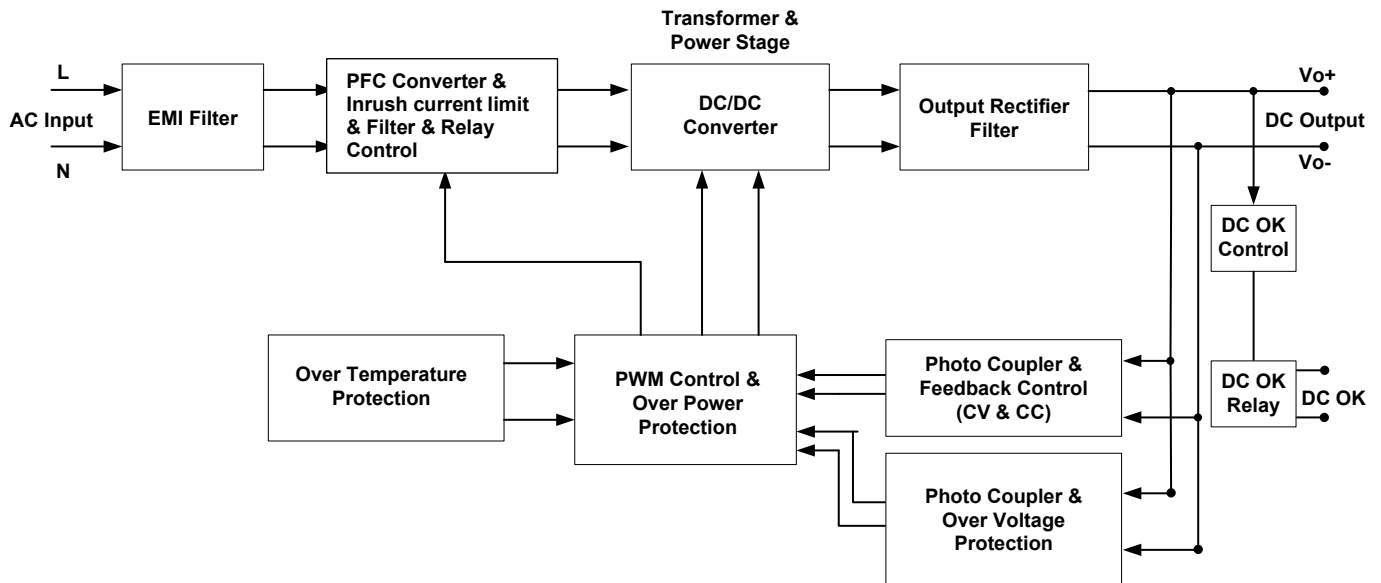
*7 Power supply is considered a component in the end-user's system. Please contact our local sales to get more information about the power supply EMC test setup.

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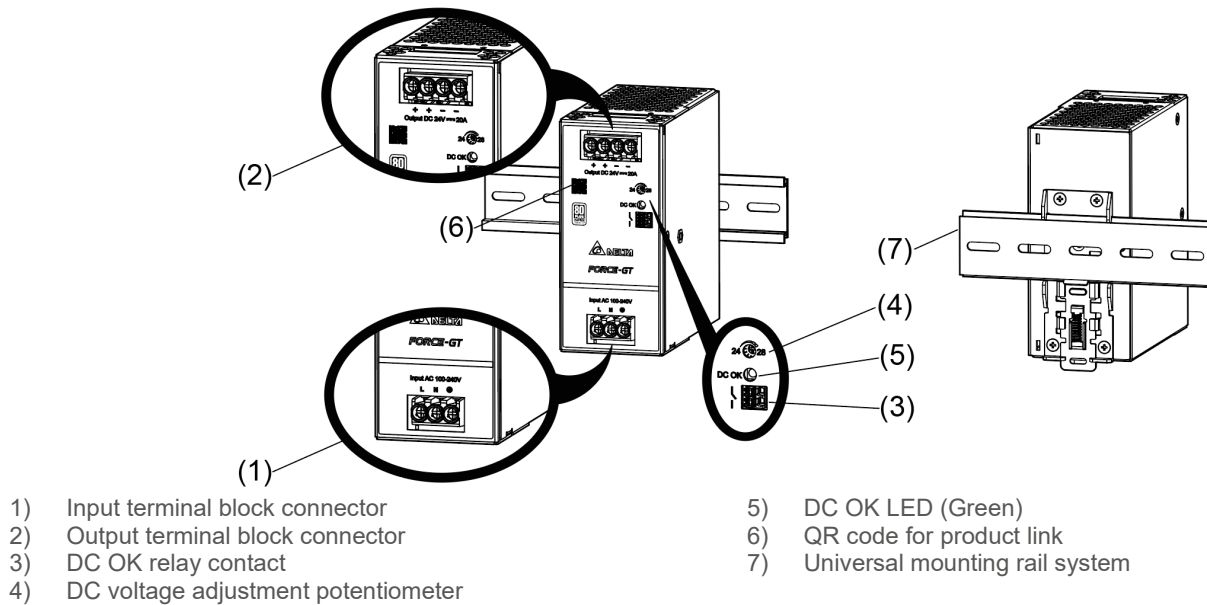
Block Diagram

DRF-□V480W1G□A



Device Description

■ DRF-□V480W1GBA



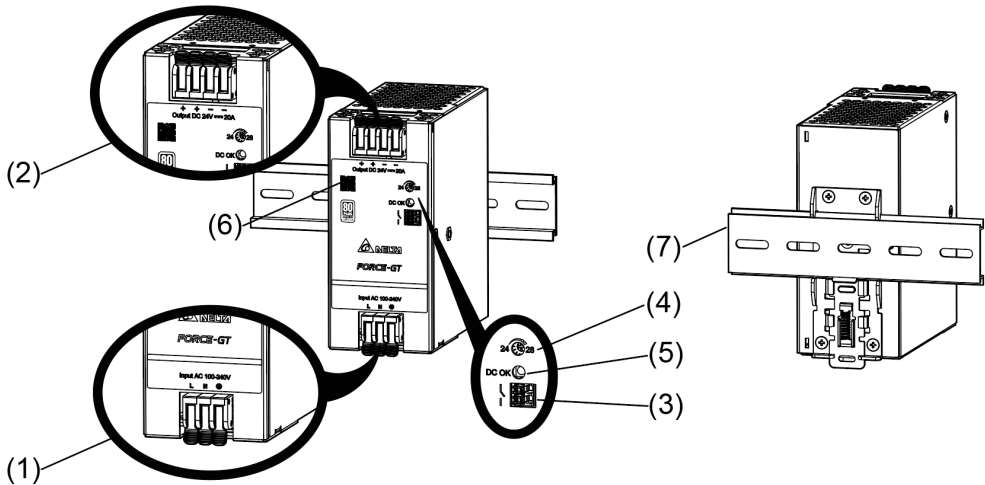
- 1) Input terminal block connector
- 2) Output terminal block connector
- 3) DC OK relay contact
- 4) DC voltage adjustment potentiometer

- 5) DC OK LED (Green)
- 6) QR code for product link
- 7) Universal mounting rail system

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■ DRF-□V480W1GTA

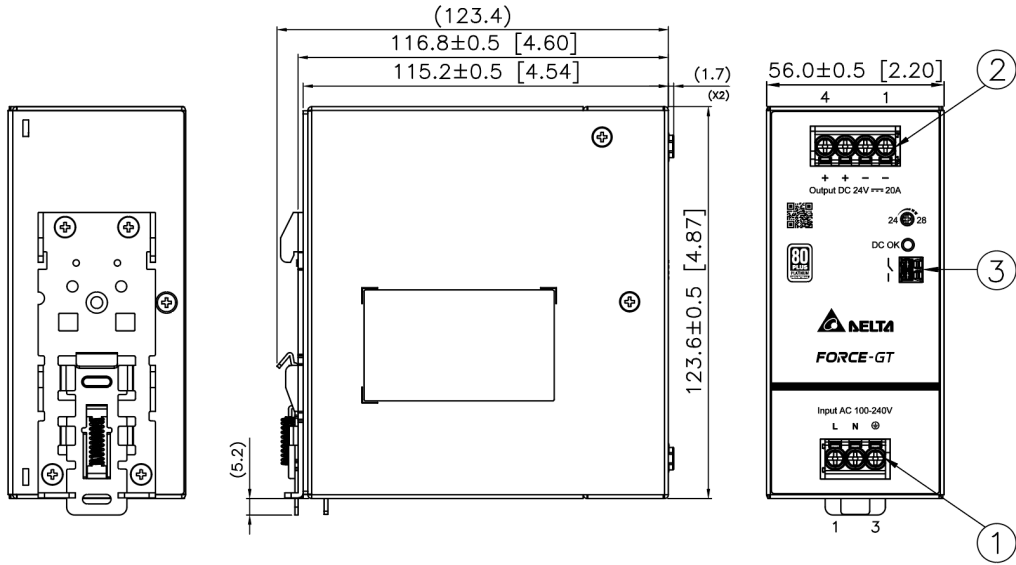


- 1) Input terminal block connector
- 2) Output terminal block connector
- 3) DC OK relay contact
- 4) DC voltage adjustment potentiometer
- 5) DC OK LED (Green)
- 6) QR code for product link
- 7) Universal mounting rail system

Dimensions

H x W x D: 123.6 x 56 x 116.8 mm (4.87 x 2.20 x 4.60 inch)

■ DRF-□V480W1GBA



*Unless otherwise specified tolerance of dimension are ± 0.5 mm

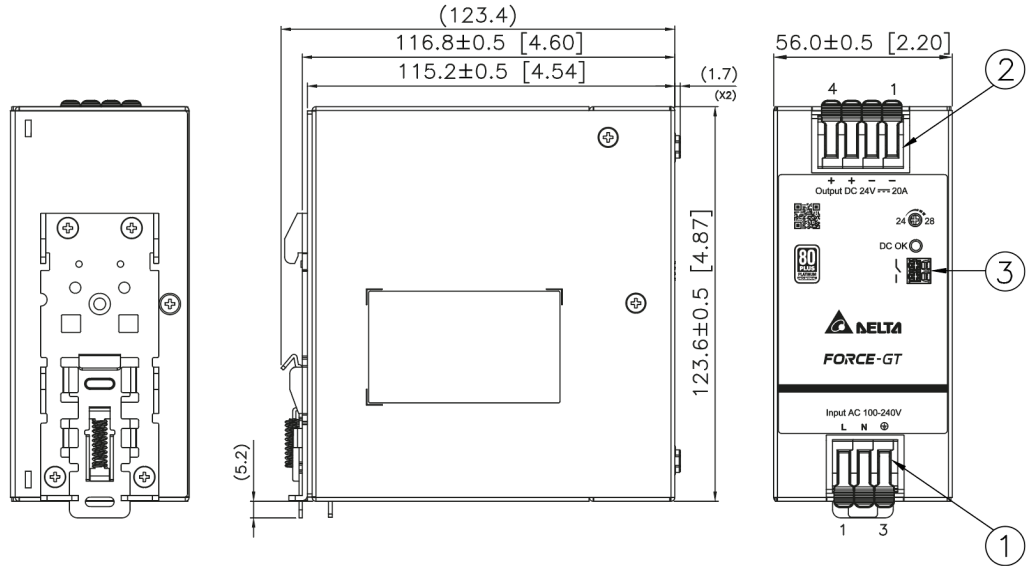
| Item | Device Description |
|------|-------------------------------------------------------------------------|
| 1 | Input terminal block connector Pin 1: L Pin 2: N Pin 3: PE |
| 2 | Output terminal block connector Pin 1 to 2: V(-) Pin 3 to 4: V(+) |
| 3 | DC OK relay contact |

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H x W x D: 123.6 x 56 x 116.8 mm (4.87 x 2.20 x 4.60 inch)

■ DRF-□V480W1GTA



*Unless otherwise specified tolerance of dimension are ± 0.5 mm

| Item | Device Description |
|------|-------------------------------------------------------------------------|
| 1 | Input terminal block connector Pin 1: L Pin 2: N Pin 3: PE |
| 2 | Output terminal block connector Pin 1 to 2: V(-) Pin 3 to 4: V(+) |
| 3 | DC OK relay contact |

AWG Wire Table

| Current Rating for PVC Wire | |
|-----------------------------|--------|
| 6 AWG | 52.5 A |
| 8 AWG | 37.5 A |
| 10 AWG | 29.0 A |
| 12 AWG | 22.5 A |
| 14 AWG | 16.5 A |
| 16 AWG | 12.0 A |
| 18 AWG | 9.0 A |
| 20 AWG | 6.5 A |
| 22 AWG | 5.0 A |
| 24 AWG | 3.5 A |
| 26 AWG | 2.5 A |
| 28 AWG | 2.0 A |
| 30 AWG | 1.5 A |

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Engineering Data

Output Load De-rating VS Surrounding Air Temperature

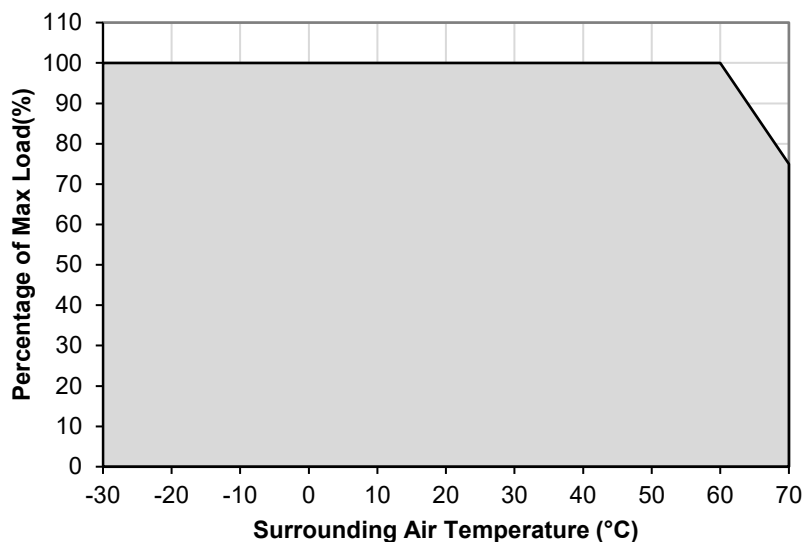
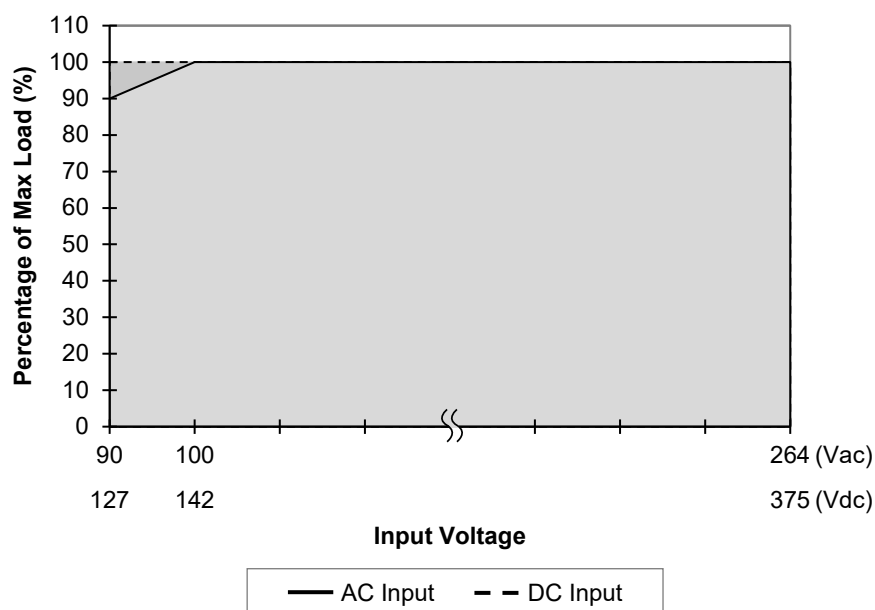


Fig. 1 De-rating for Vertical Mounting Orientation
> 60°C de-rate power by 2.5 % / °C

Note

1. 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. The PSU will be bouncing and start up time will not exceed 5 s when ambient temperature at -30°C.
3. If the output capacity is not reduced when the surrounding air temperature > 60°C, the device will run into Over Temperature Protection. When activated, power supply 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.
4. 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.
5. Depending on the surrounding air temperature and output load delivered by the power supply, the device can be very hot!
6. Need to consider power de-rating if Surrounding Air Temperature is > 60°C.
7. If the device has to be mounted in any other orientation, please leave a message via the [Contact Us](#) form.

Output Load De-rating VS Input Voltage



- No output power de-rating for the input voltage from 100 Vac to 264 Vac & 127 Vdc to 375 Vdc

Fig. 2 De-rating for AC & DC Input Voltage
< 100 Vac de-rate power by 1 % / Vac
No de-rate power for DC Input

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Assembly & Installation

The power supply unit (PSU) can be mounted on 35 mm 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

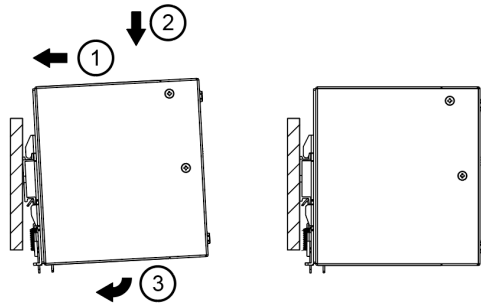


Fig. 3.1 Mounting

Snap on the DIN rail as shown in Fig. 3.1:

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

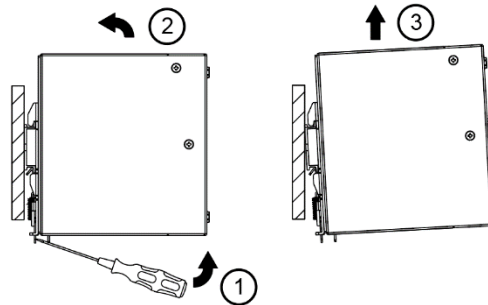
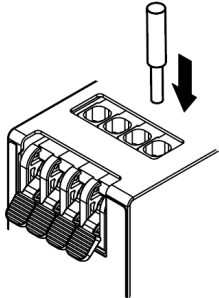


Fig. 3.2 Dismounting

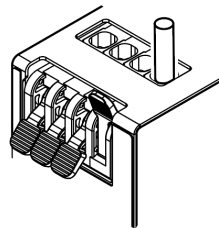
To uninstall, Delta provides an easy way to pull or slide down the latch with screw driver as shown in Fig. 3.2. Then slide the power supply unit (PSU) in the opposite direction, release the latch and pull out the power supply unit (PSU) from the rail.

Connecting a Wire to Spring Clamp Terminals

1. Open the lever and insert the wire.



2. Close the lever.



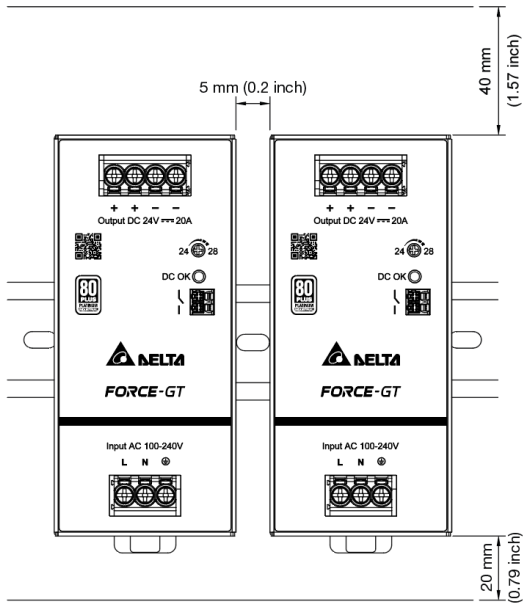
To disconnect the wires, reverse the procedure.
Flexible cables require ferrules.

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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 40 mm (1.57 inch) above and 20 mm (0.79 inch) below the device as well as a lateral distance of 5 mm (0.2 inch) to other units and if load less than 50%, lateral distance can be 0 mm. In case the adjacent device is a heat source, the lateral distance will be 15 mm (0.6 inch) at 230 Vac input.**
- 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!
- The main power must be turned off before connecting or disconnecting wires to the terminals.
- 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 are built in units and must be installed in a cabinet or room (condensation free environment and indoor location) that is relatively free of conductive contaminants.

Functions

DC OK Relay Contacts and LED Indicator Characteristics

| DC OK Relay Contacts Status | Characteristics |
|-----------------------------|--------------------------------------------------------------|
| Contact closes | The output voltage > 90% typ. of its steady state set value. |
| Contact opens | The output voltage < 90% typ. of its steady state set value. |

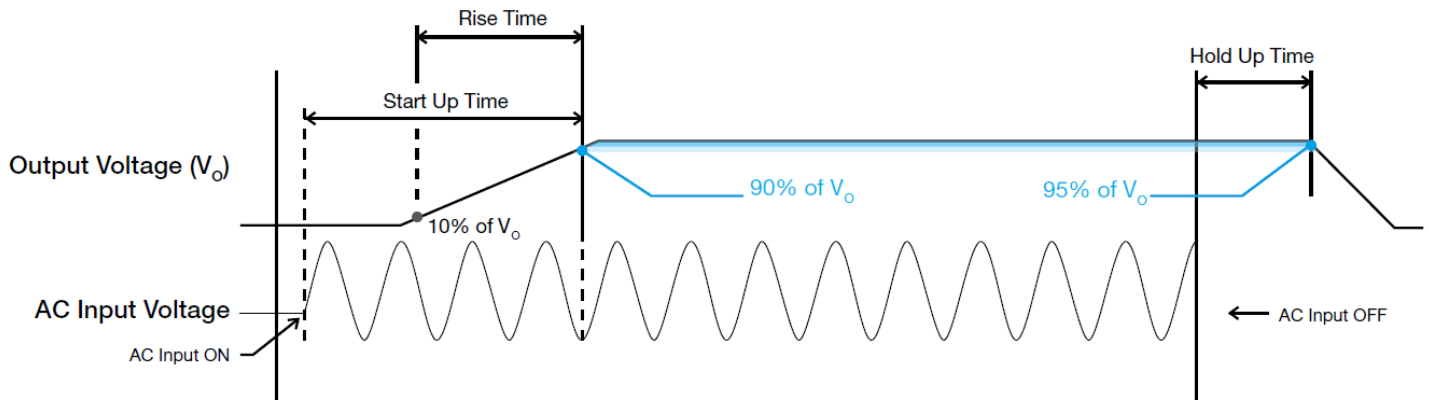
| Operating Status | DC OK (Green LED) | DC OK Relay Contact |
|------------------------|-------------------|---------------------|
| Normal Operation | ON | Closed |
| Overload (Hiccup Mode) | INTERMITTENT | Open |
| Output Short Circuit | INTERMITTENT | Open |
| Over Temperature | OFF | Open |
| No Input Power | OFF | Open |



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■ 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

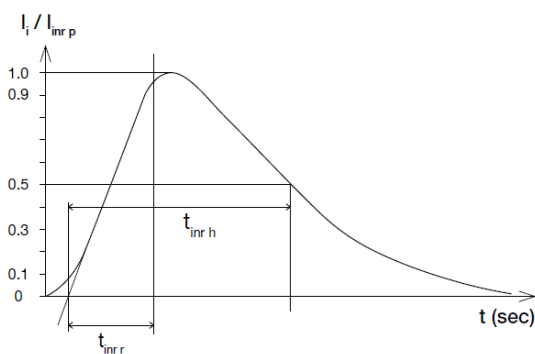
The time required for the output voltage to change from 10% to 90% of its final steady state set value.

Hold-up Time

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

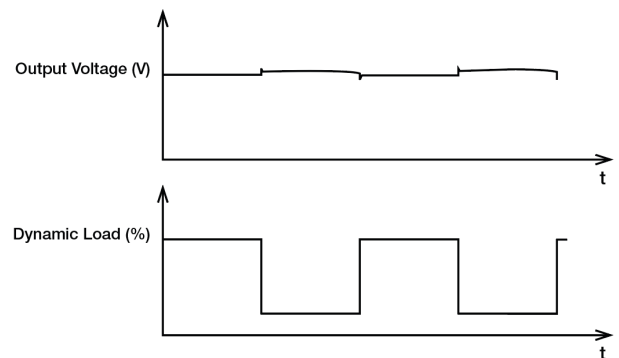
Inrush Current

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 remain within $\pm 10\%$ of its steady state value, when subjected to a dynamic load from 10% to 100% of its rated current.

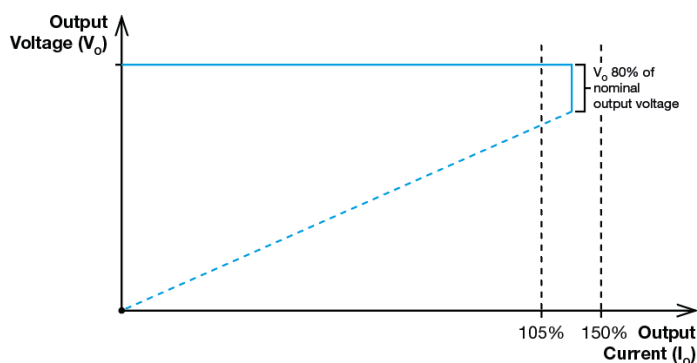


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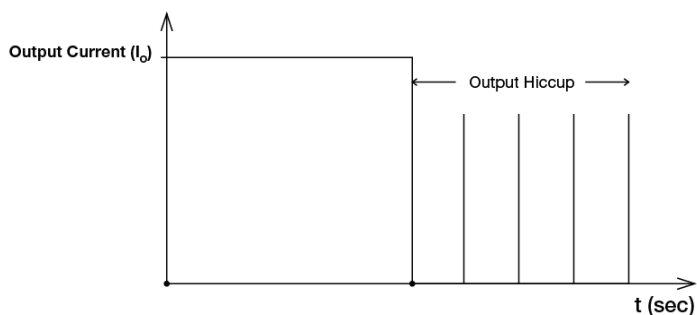
Overload & Overcurrent Protections (Continuous Current)

The power supply offers constant current limit protection for inductive and capacitive load applications when output current range is 105~150% of I_o (Max load) and output voltage large than 80%. Upon such an occurrence, the V_o (output voltage) will start to droop. Once the power supply has reached its maximum power limit, the protection will be activated; and, the power supply will operate in continuous current. The power supply will recover once the cause of OLP or OCP is removed, and I_o (output current) is back within the specified range.



Short Circuit Protection (Auto-Recovery)

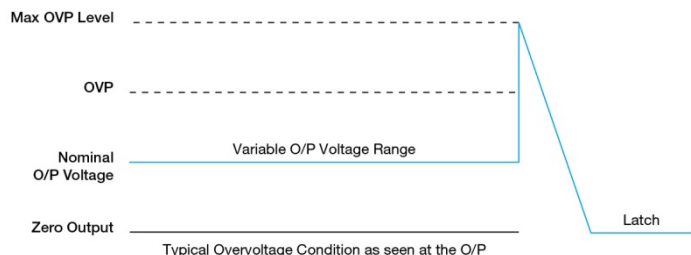
The power supply's output Short Circuit Protection function also provides protection against short circuits. When a short circuit is applied, the output current will operate in "Hiccup mode". The power supply will return to normal operation after the short circuit is removed.



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 as described in "Protections" section. 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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Operating Mode

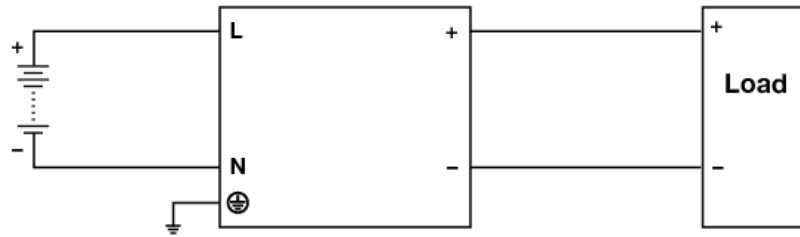


Fig. 4 DC Input Operation Connection Diagram

■ 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.

Others

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.

Manufacturer and Authorized Representatives Information

Manufacturer

Thailand

Delta Electronics (Thailand) PCL.
909 Pattana 1 Rd., Muang, Samutprakarn, 10280 Thailand

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