

# LYTE II DIN Rail Power Supply

## DRL-240W series / DRL-□V240W1EN□



## LYTE II

### Highlights & Features

- Universal AC input voltage range
- Built-in constant current circuit for reactive loads
- High power density
- Operate from -30°C to +70°C with -40°C Cold Start
- Reduced no-load power consumption
- Compliance with DOE VI Energy Standard
- Compliance to SEMI F47 @ 200 Vac

### Safety Standards



CB Certified for worldwide use

**Model Number:** DRL-□V240W1EN□  
**Unit Weight:** 0.62 kg (1.37 lb)  
**Dimensions (H x W x D):** 123.6 x 40 x 116.8 mm  
 (4.87 x 1.57 x 4.60 inch)

### General Description

Delta's LYTE II DIN rail power supply series is designed for cost sensitive users who need to fulfill essential features needed for many general industrial applications, without compromising on quality and reliability. The convection-cooled LYTE II series will operate full power from -30°C to +50°C, then de-rating up to +70°C at 230 Vac. It can operate in constant current mode, making it suitable for inductive and capacitive loads. The product is certified according to safety standards IEC/EN/UL 62368-1. Electromagnetic radiated and conducted emissions are compliant to heavy industrial EN 61000-6-4 Class B Emission standard and EN 61000-6-2 Immunity standard. The product comply with environmental protection requirements as per RoHS Directive.

### Model Information

#### LYTE II DIN Rail Power Supply

| Model Number    | Input Voltage Range | Rated Output Voltage | Rated Output Current |
|-----------------|---------------------|----------------------|----------------------|
| DRL-12V240W1EN□ | 90-264 Vac          | 12 Vdc               | 20.0 A               |
| DRL-24V240W1EN□ |                     | 24 Vdc               | 10.0 A               |
| DRL-48V240W1EN□ |                     | 48 Vdc               | 5.0 A                |

### Model Numbering

| DR       | L -                             | □V                                                    | 240W         | 1            | E                               | N                          | □                                      |
|----------|---------------------------------|-------------------------------------------------------|--------------|--------------|---------------------------------|----------------------------|----------------------------------------|
| DIN Rail | Product Type<br>L – LYTE Family | Output Voltage<br>12 – 12 V<br>24 – 24 V<br>48 – 48 V | Output Power | Single Phase | LYTE II Series with Slim Design | N – No DC OK Relay Contact | Blank – No coating<br>A – With coating |

# LYTE II DIN Rail Power Supply

## DRL-240W series / DRL-□V240W1EN□

### Specifications

| Model Number | DRL-12V240W1EN□ | DRL-24V240W1EN□ | DRL-48V240W1EN□ |
|--------------|-----------------|-----------------|-----------------|
|--------------|-----------------|-----------------|-----------------|

### 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                                   |                                |                               |
| Input Current                               | 2.5 A typ. @ 115 Vac, 1.3 A typ. @ 230 Vac |                                |                               |
| Efficiency at 100% Load                     | 86.5% typ. @ 230 Vac                       | 90.0% typ. @ 230 Vac           | 90.5% typ. @ 230 Vac          |
| Average Efficiency<br>(25%, 50%, 75%, 100%) | 88% typ. @ 115 Vac                         | 88% typ. @ 115 Vac             | 88% typ. @ 115 Vac            |
| No Load Power Consumption                   | 0.15 W max @ 115 Vac & 230 Vac             | 0.21 W max @ 115 Vac & 230 Vac | 0.3 W max @ 115 Vac & 230 Vac |
| Max Inrush Current (Cold Start)             | 40 A typ. @ 230 Vac                        |                                |                               |
| Power Factor at 100% Load                   | > 0.95 @ 115 Vac & 230 Vac                 |                                |                               |
| Leakage Current                             | < 0.75 mA @ 240 Vac                        |                                |                               |

### Output Ratings / Characteristics\*<sup>2</sup>

|                                                          |                                                                                                        |                                                        |                                                        |
|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Nominal Output Voltage                                   | 12 Vdc                                                                                                 | 24 Vdc                                                 | 48 Vdc                                                 |
| Factory Set Point Tolerance                              | 12 Vdc ± 1%                                                                                            | 24 Vdc ± 1%                                            | 48 Vdc ± 1%                                            |
| Output Voltage Adjustment Range                          | 10.8-13.2 Vdc                                                                                          | 21.6-26.4 Vdc                                          | 43.2-52.8 Vdc                                          |
| Output Current                                           | 20.0 A                                                                                                 | 10.0 A                                                 | 5.0 A                                                  |
| Output Power                                             | 240 W max                                                                                              |                                                        |                                                        |
| Line Regulation                                          | ± 0.5% @ 115 Vac & 230 Vac                                                                             |                                                        |                                                        |
| Load Regulation                                          | ± 1.0%                                                                                                 | ± 0.5%                                                 | ± 0.5%                                                 |
| PARD* <sup>3</sup> (20 MHz)                              | < 120 mVpp @ 0°C to +70°C<br>< 360 mVpp @ -30°C to 0°C                                                 | < 150 mVpp @ 0°C to +70°C<br>< 450 mVpp @ -30°C to 0°C | < 200 mVpp @ 0°C to +70°C<br>< 600 mVpp @ -30°C to 0°C |
| Rise Time                                                | 30 ms typ. @ 115 Vac & 230 Vac                                                                         |                                                        |                                                        |
| Start-up Time                                            | 500 ms typ. @ 115 Vac & 230 Vac                                                                        |                                                        |                                                        |
| Hold-up Time                                             | 20 ms typ. @ 115 Vac (100% load)<br>20 ms typ. @ 230 Vac (100% load)                                   |                                                        |                                                        |
| Dynamic Response<br>(Overshoot & Undershoot O/P Voltage) | ± 10% @ 115 Vac & 230 Vac input, 10-100% load<br>(Slew Rate: 2.5 A/μs, 50% duty cycle @ 5 Hz & 10 kHz) |                                                        |                                                        |
| Start-up with Capacitive Loads                           | 8,000 μF Max                                                                                           | 8,000 μF Max                                           | 3,000 μF Max                                           |

\*<sup>2</sup> For power will be de-rating from 40°C to 70°C @ 115 Vac & 50°C to 70°C @ 230 Vac, and Vin < 100 Vac, see Engineering Data power de-rating information.

\*<sup>3</sup> 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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## DRL-240W series / DRL-□V240W1EN□

| Model Number | DRL-12V240W1EN□ | DRL-24V240W1EN□ | DRL-48V240W1EN□ |
|--------------|-----------------|-----------------|-----------------|
|--------------|-----------------|-----------------|-----------------|

### Mechanical

|                                   |        |                                                          |
|-----------------------------------|--------|----------------------------------------------------------|
| Case Cover / Chassis              |        | SGCC / Aluminum                                          |
| Dimensions (H x W x D)            |        | 123.6 x 40 x 116.8 mm (4.87 x 1.57 x 4.60 inch)          |
| Unit Weight                       |        | 0.62 kg (1.37 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 / 20 A)                              |
| Wire                              | Input  | AWG 18-12 (Current rating can refer to "AWG Wire Table") |
|                                   | Output | AWG 18-12 (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 terminal connector shall not exceed 4 Kgf.cm. (3.47 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   | > 40°C de-rate power by 1.67 % / °C @ 115 Vac<br>> 50°C de-rate power by 2.5 % / °C @ 230 Vac                          |
|                             | Input Voltage | < 100 Vac de-rate power by 1% / Vac                                                                                    |
| Operating Humidity          |               | 20 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, 9 times in total                    |
|                             | Operating     | IEC 60068-2-27, Half Sine Wave: 10 G for duration of 11 ms; 1 time in X axis                                           |
| Vibration                   | Non-Operating | IEC 60068-2-6, Random: 5 Hz to 500 Hz (2.09 G); 20 min per axis for all X, Y, Z direction                              |
|                             | Operating     | IEC 60068-2-6, Sine Wave: 10 Hz to 500 Hz @ 19.6 m/s <sup>2</sup> (2 G peak); 10 min per cycle, 60 min for X direction |
| Over Voltage Category       |               | II (Compliance to EN 62477-1 OVC III with 2000 meters altitude)                                                        |
| Pollution Degree            |               | 2                                                                                                                      |

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

### Protections

|                          |                                                                                                        |                                   |                                   |
|--------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|
| Overvoltage              | < 17.4 V, SELV Output, Latch Mode                                                                      | < 33.6 V, SELV Output, Latch Mode | < 64.8 V, SELV Output, Latch Mode |
| Overload / Overcurrent   | 105 - 150% of rated load current, Auto-recovery Continuous current limit Mode* <sup>5</sup> (Vo > 80%) |                                   |                                   |
| Over Temperature         | Latch Mode                                                                                             |                                   |                                   |
| Short Circuit            | Hiccup Mode, Non-Latching (Auto-Recovery when the fault is removed)                                    |                                   |                                   |
| Internal Fuse at L pin   | T4 A / 250 V                                                                                           |                                   |                                   |
| Protection Against Shock | Class I with PE* <sup>6</sup> connection                                                               |                                   |                                   |

\*<sup>5</sup> Constant current limit protection for inductive and capacitive load applications

\*<sup>6</sup> PE: Primary Earth

### Reliability Data

|                        |                                     |                                                                   |
|------------------------|-------------------------------------|-------------------------------------------------------------------|
| MTBF                   | Telcordia SR-332                    | > 700,000 hrs<br>I/P: 115 Vac & 230 Vac, O/P: 100% load, Ta: 25°C |
| Expected Cap Life Time | 10 years (230 Vac, 50% load @ 40°C) |                                                                   |

### Safety Standards / Directives

|                    |                                                                                                                       |                                                                                                                                                                            |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Electrical Safety  | CB scheme<br>TUV Bauart<br>UL/cUL<br>CCC<br>BSMI<br>EAC<br>KC                                                         | IEC 62368-1, IEC 60950-1, IEC 61010-1 & -2-201<br>EN 62368-1, EN 61010-1 & -2-201<br>UL 62368-1<br>GB4943.1<br>CNS14336-1<br>TP TC 004/2011<br>K 60950-1 (24 V model only) |
| 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                                                                                                       | 3.0 KVac                                                                                                                                                                   |
|                    | Input to Ground                                                                                                       | 2.0 KVac                                                                                                                                                                   |
|                    | Output to Ground                                                                                                      | 1.0 KVac                                                                                                                                                                   |

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

### EMC

|                                        |                |                                                                                                                                                                                |                                                        |                                                                                  |
|----------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|----------------------------------------------------------------------------------|
| Emissions (CE & RE)                    |                | CISPR 32, EN/BS EN 55032, EN/BS EN 61000-6-4, AS/NZS CISPR32, EN/BS EN 61204-3, KN 32 (24 V model only)<br>Compliance to FCC Title 47, EN/BS EN 61000-6-3: Class B             |                                                        |                                                                                  |
| Component Power Supply for General Use |                | EN/BS EN 61204-3                                                                                                                                                               |                                                        |                                                                                  |
| Immunity                               |                | EN/BS EN 55035, KN 35 (24 V model only), EN/BS EN 61000-6-2<br>Compliance to EN/BS EN 61000-6-1                                                                                |                                                        |                                                                                  |
| Electrostatic Discharge                | IEC 61000-4-2  | Level 4 Criteria A <sup>1)</sup><br>Air Discharge: 15 kV<br>Contact Discharge: 8 kV                                                                                            |                                                        |                                                                                  |
| Radiated Field                         | IEC 61000-4-3  | Criteria A <sup>1)</sup><br>80 MHz – 1 GHz, 10 V/M, 80% Modulation (1 kHz)<br>1.4 GHz – 2 GHz, 3 V/M, 80% Modulation (1 kHz)<br>2 GHz – 2.7 GHz, 1 V/M, 80% Modulation (1 kHz) |                                                        |                                                                                  |
| Electrical Fast Transient / Burst      | IEC 61000-4-4  | Level 3 Criteria A <sup>1)</sup><br>2 kV                                                                                                                                       |                                                        |                                                                                  |
| Surge                                  | IEC 61000-4-5  | Level 4 Criteria A <sup>1)</sup><br>Common Mode <sup>4)</sup> : 4 kV<br>Differential Mode <sup>5)</sup> : 2 kV                                                                 |                                                        |                                                                                  |
| Conducted                              | IEC 61000-4-6  | Level 3 Criteria A <sup>1)</sup><br>150 kHz – 80 MHz, 10 Vrms                                                                                                                  |                                                        |                                                                                  |
| Power Frequency Magnetic Fields        | IEC 61000-4-8  | Level 4 Criteria A <sup>1)</sup><br>30 A/m                                                                                                                                     |                                                        |                                                                                  |
| Voltage Dips and Interruptions         | IEC 61000-4-11 | 0% residual; 1 cycle, Criteria B <sup>2)</sup><br>40% residual; 10 cycle, Criteria C <sup>3)</sup><br>70% residual; 25 cycle, Criteria C <sup>3)</sup>                         |                                                        |                                                                                  |
| Harmonic Current Emission              |                | IEC/EN/BS EN 61000-3-2, Class A                                                                                                                                                |                                                        |                                                                                  |
| Voltage Fluctuation and Flicker        |                | IEC/EN/BS EN 61000-3-3                                                                                                                                                         |                                                        |                                                                                  |
| Voltage Sag Immunity SEMI F47 – 0706   |                | 80% of 200 Vac<br>70% of 200 Vac<br>50% of 200 Vac                                                                                                                             | 160 Vac, 1000 ms<br>140 Vac, 500 ms<br>100 Vac, 200 ms | Criteria A <sup>1)</sup><br>Criteria A <sup>1)</sup><br>Criteria A <sup>1)</sup> |

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)

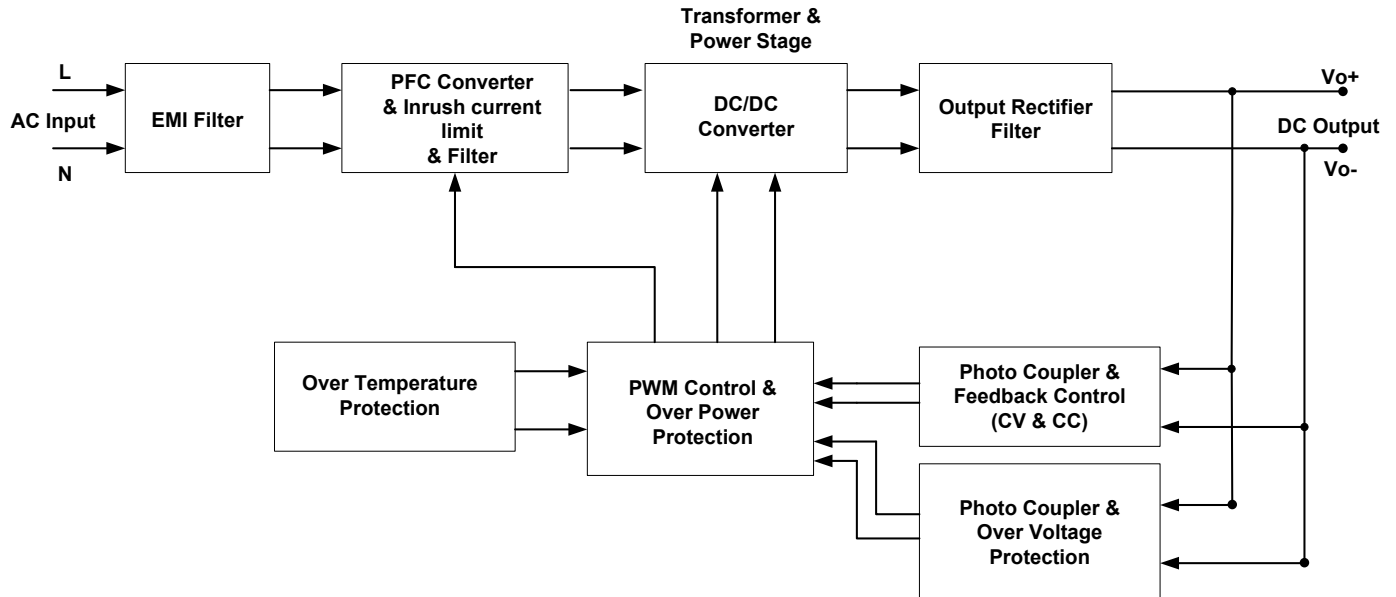
5) Symmetrical: Differential mode (Line to line)

# LYTE II DIN Rail Power Supply

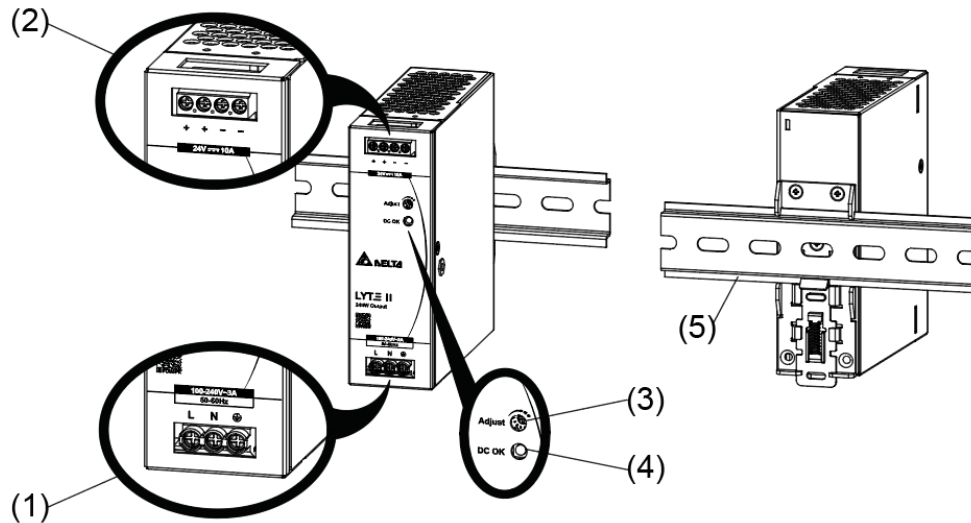
## DRL-240W series / DRL-□V240W1EN□

### Block Diagram

DRL-□V240W1EN□



### Device Description



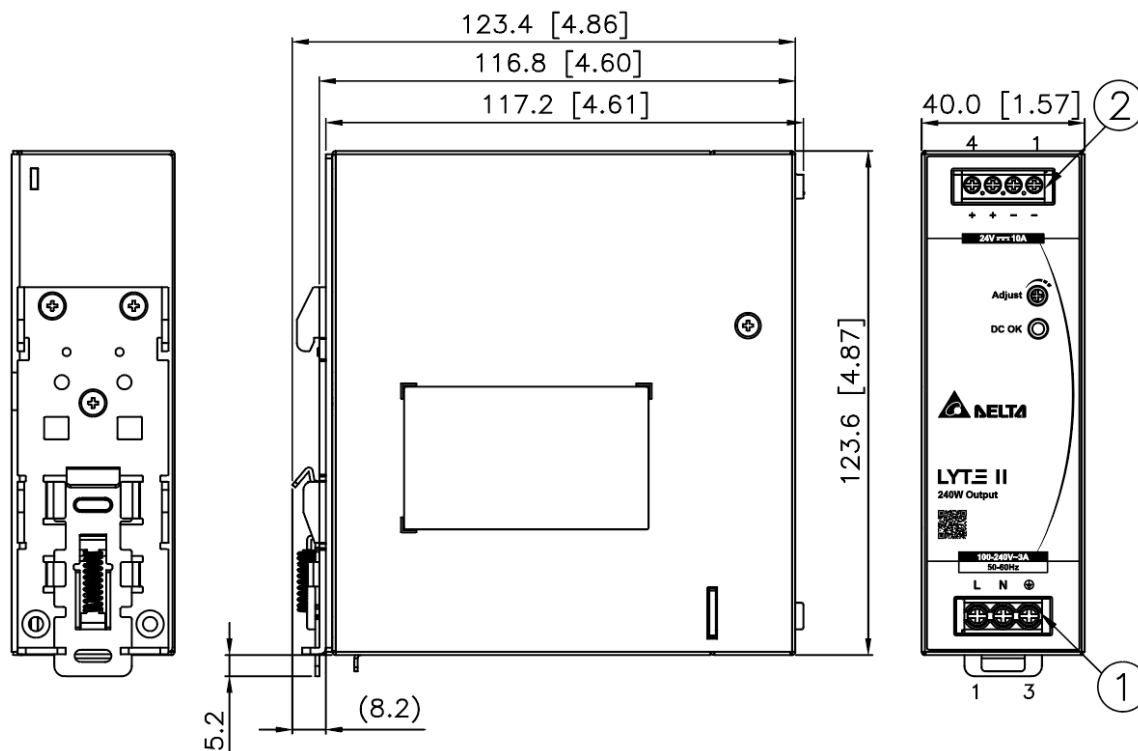
- 1) Input terminal block connector
- 2) Output terminal block connector
- 3) DC voltage adjustment potentiometer
- 4) DC OK LED (Green)
- 5) Universal mounting rail system

# LYTE II DIN Rail Power Supply

## DRL-240W series / DRL-□V240W1EN□

### Dimensions

H x W x D: 123.6 x 40 x 116.8 mm (4.87 x 1.57 x 4.60 inch)



\*Unless otherwise specified tolerance of dimension are  $\pm 0.5$  mm

| Item | Device Description                                                      |
|------|-------------------------------------------------------------------------|
| 1    | Input terminal block connector<br>Pin 1: L<br>Pin 2: N<br>Pin 3: PE     |
| 2    | Output terminal block connector<br>Pin 1 to 2: V(-)<br>Pin 3 to 4: V(+) |

### AWG Wire Table

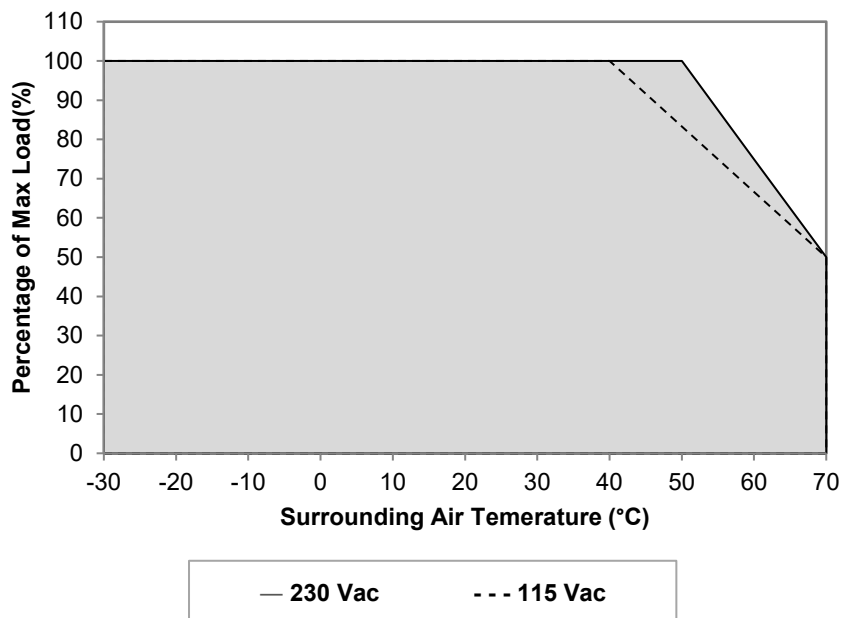
| Current Rating for PVC Wire |        |
|-----------------------------|--------|
| 6 AWG                       | 52.5 A |
| 8 AWG                       | 37.5 A |
| 10 AWG                      | 29.0 A |
| 12 AWG                      | 22.5 A |
| 14 AWG                      | 16.5 A |
| 16 AWG                      | 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  |

# LYTE II DIN Rail Power Supply

## DRL-240W series / DRL-□V240W1EN□

### Engineering Data

#### Output Load De-rating VS Surrounding Air Temperature

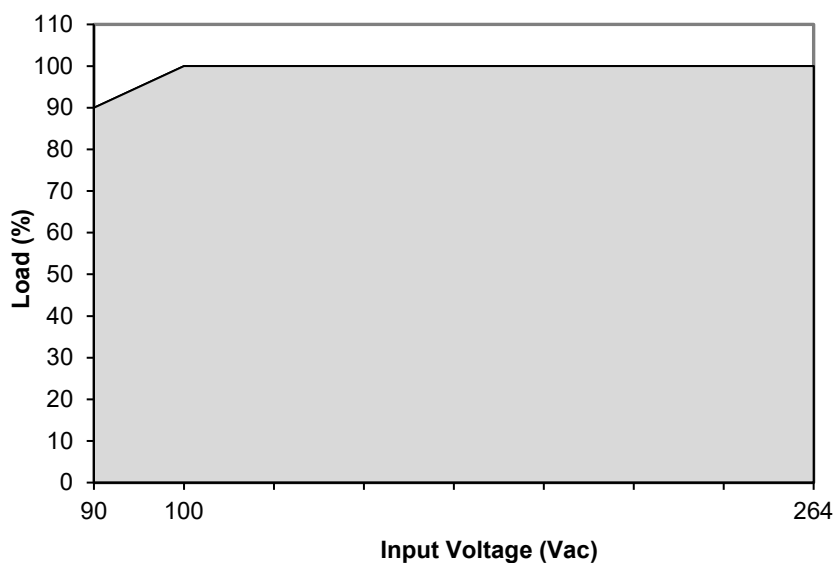


**Fig. 1 De-rating for Vertical Mounting Orientation**  
 > 40°C de-rate power by 1.67 % / °C @ 115 Vac  
 > 50°C de-rate power by 2.5 % / °C @ 230 Vac

#### 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 5s when ambient temperature at -30 °C
3. If the output capacity is not reduced when the surrounding air temperature > 50°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 < 40°C at 115 Vac and < 50°C at 230 Vac.
7. If the device has to be mounted in any other orientation, please contact [info@deltapsu.com](mailto:info@deltapsu.com) for more details.

#### Output Load De-rating VS Input Voltage



- No output power de-rating for the input voltage from 100 Vac to 264 Vac

**Fig. 2 De-rating for AC Input Voltage**  
 < 100 Vac de-rate power by 1 % / Vac



# LYTE II DIN Rail Power Supply

## DRL-240W series / DRL-□V240W1EN□

### 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

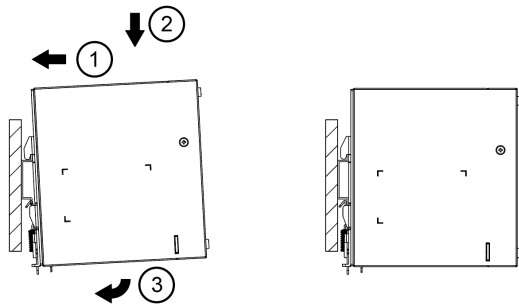


Fig. 3.1 Mounting

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

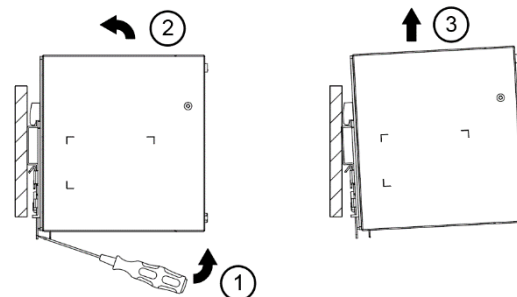
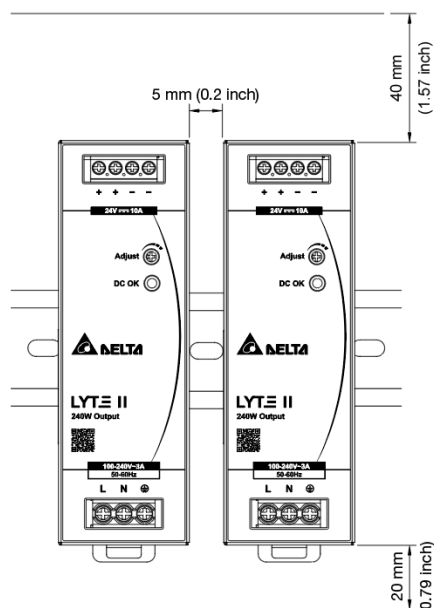


Fig. 3.2 Dismounting

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.

### Safety Instructions

#### Vertical Mounting



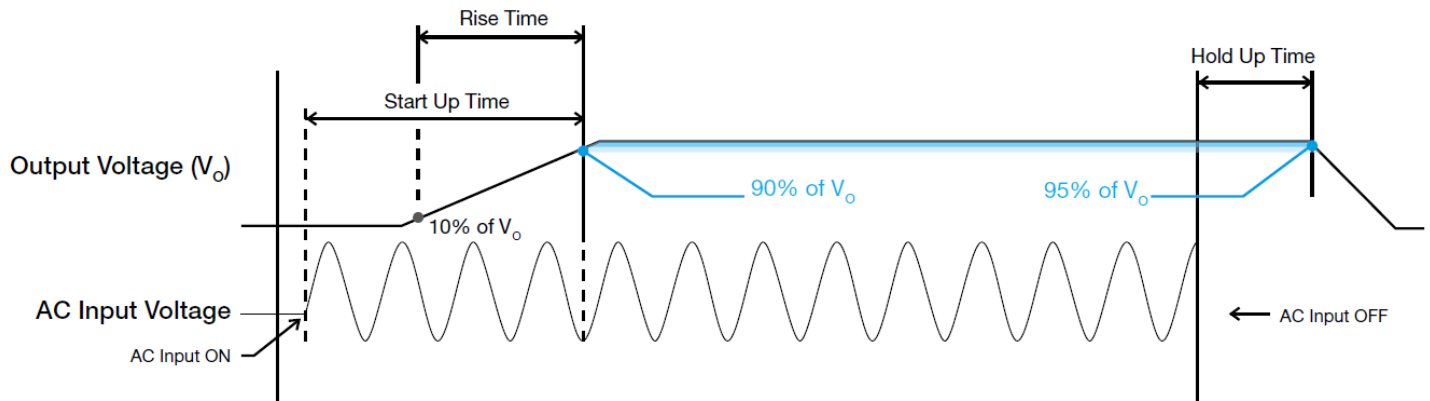
- ALWAYS switch mains of input power OFF before connecting and disconnecting the input voltage to the unit. If mains are not turned OFF, there is risk of explosion / severe damage.
- **To guarantee sufficient convection cooling, keep a distance of 40 mm (1.57 inch) above and 20 mm (0.79 inch) below the 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).**
- 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.

# LYTE II DIN Rail Power Supply

## DRL-240W series / DRL-□V240W1EN□

### 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

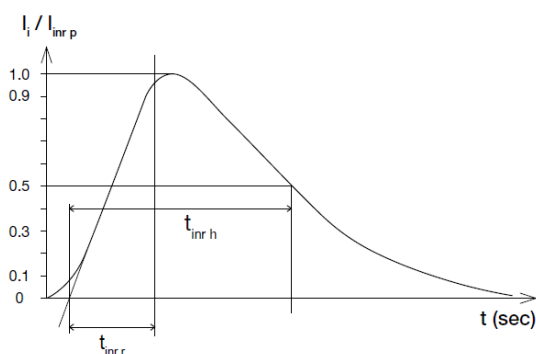
The time required for the output voltage to change from 10% to 90% of its final steady state set value.

### Hold-up Time

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

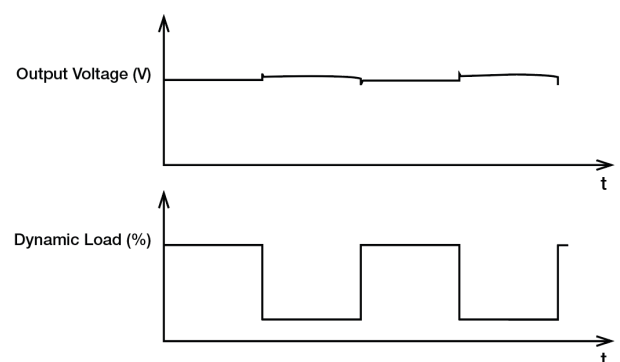
### Inrush Current

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

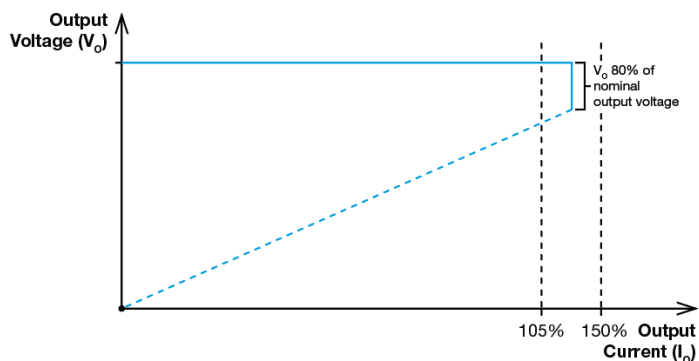


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## DRL-240W series / DRL-□V240W1EN□

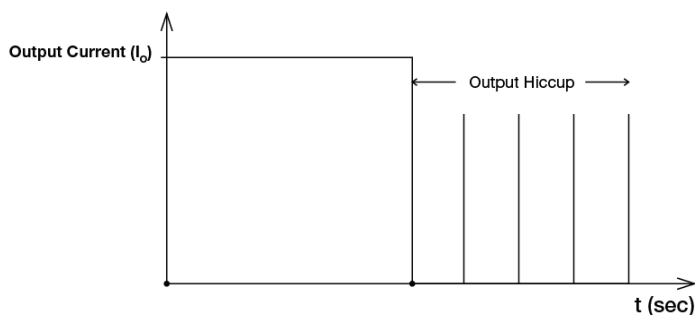
### Overload & Overcurrent Protections (Continuous Current)

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 is more 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)

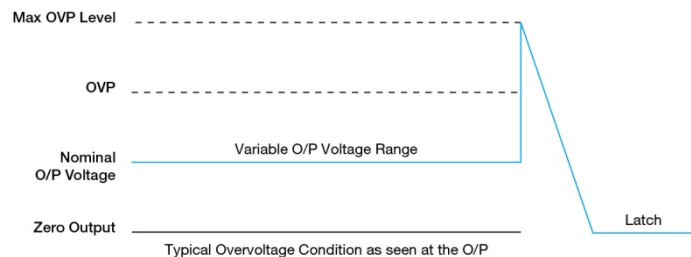
The power supply's output Short Circuit Protection function also provides protection against short circuits. When a short circuit is applied, the output current will operate in "Hiccup mode". The power supply will return to normal operation after the short circuit is removed.



### 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.

# LYTE II DIN Rail Power Supply

## DRL-240W series / DRL-□V240W1EN□

### Others

#### Attention

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