

## 120-480W, 24V Output DIN Rail Mount Power Supplies

### Features

- ◆ Very Compact Size
- ◆ High Efficiency (Up to 94%)
- ◆ 150% Peak Power Capability for 4s
- ◆ ErP Compliant Design
- ◆ Low Standby Power Draw
- ◆ Remote On/Off
- ◆ Remote Voltage Adjustment



### Key Market Segments & Applications



| Specifications                                   |     | DRF120   | DRF240             | DRF480             |
|--|-----|--|--------------------|--------------------|
| AC Input Voltage range                           | VAC | 85 - 264VAC (Withstands 300VAC for 5 seconds)                                    |                    |                    |
| Input Frequency                                  | Hz  | 47 - 63Hz  |                    |                    |
| Inrush Current (typ) (Cold Start)                | A   | 20   | 20                 | 40                 |
| Power Factor (115/230VAC)<br>(Meets EN61000-3-2) | -   | 0.98 / 0.95  | 0.98 / 0.95        | 0.98 / 0.92        |
| Input Current (115/230VAC)                       | A   | 1.2 / 0.6  | 2.4 / 1.2          | 4.7 / 2.5          |
| Line Regulation                                  | mV  | <96mV  |                    |                    |
| Load Regulation                                  | mV  | <240mV   |                    |                    |
| Ripple & Noise (1)                               | mV  | <240mV   |                    |                    |
| Overcurrent Protection                           | -   | >105% of peak current rating. Shutdown after 4 seconds                           |                    |                    |
| Overvoltage Protection                           | -   | 30 - 35.5V. Cycle input voltage or remote on/off to reset                        |                    |                    |
| Hold Up Time (230VAC input)                      | ms  | > 20ms   |                    |                    |
| Efficiency (115 / 230VAC)                        | %   | 89 / 91  | 92.5 / 94          | 92.5 / 94          |
| Standby Power Draw                               | W   | <0.5W  | <0.5W              | <0.75W             |
| LED Indicators                                   | -   | Green LED = DC is OK (>80% Nom). Red LED = Peak Load Operation                   |                    |                    |
| DC OK relay                                      | -   | Relay contact 30V/1A   |                    |                    |
| Remote On / Off                                  | -   | When signal is low, the output is On   |                    |                    |
| Remote Voltage Adjust                            | -   | See Installation Manual  |                    |                    |
| Operating Temperature                            | °C  | -25 to +70°C. (Derate linearly to 75% load above 60°C)                           |                    |                    |
| Storage Temperature                              | °C  | -40 to +85°C   |                    |                    |
| Operating Humidity (non condensing)              | %RH | 5 - 95%RH  |                    |                    |
| Parallel Operation                               | -   | Droop Mode - Refer to Installation Manual  |                    |                    |
| Series Operation                                 | -   | Possible   |                    |                    |
| Cooling  | -   | Convection   |                    |                    |
| Withstand Voltage (For 1 minute)                 | VAC | Input to Output 3kVAC, Input to GND 1.5kVAC, Output to GND 500VAC                |                    |                    |
| Isolation Resistance                             | MΩ  | >100MΩ at 25°C, 70%RH & 500VDC   |                    |                    |
| Vibration (Non operating)                        | -   | 10-55Hz (sweep for 1 min); 19.6m/s <sup>2</sup> (2G) Constant; X,Y,Z each 1 hour |                    |                    |
| Shock  | -   | <196m/s <sup>2</sup>   |                    |                    |
| Safety Agency Certifications (2)                 | -   | UL508 Listed, IEC/UL/EN60950-1, ATEX, IEC Ex, GL, CE Mark                        |                    |                    |
| Conducted & Radiated EMI                         | -   | EN55022-B Radiated & Conducted   |                    |                    |
| Immunity   | -   | EN61000-4-2, -3, -4, -5, -6, -8, -11   |                    |                    |
| Weight (Typ)                                     | g   | 600  | 900                | 1300               |
| Size (WxHxD)                                     | in  | 1.44 x 4.86 x 4.53   | 1.93 x 4.86 x 4.53 | 3.23 x 4.86 x 4.53 |
|  | mm  | 36.5 x 123.4 x 115   | 49 x 123.4 x 115   | 82 x 123.4 x 115   |
| Case material                                    | -   | Metal  |                    |                    |
| Warranty   | yrs | Five years   |                    |                    |

(1) See installation manual

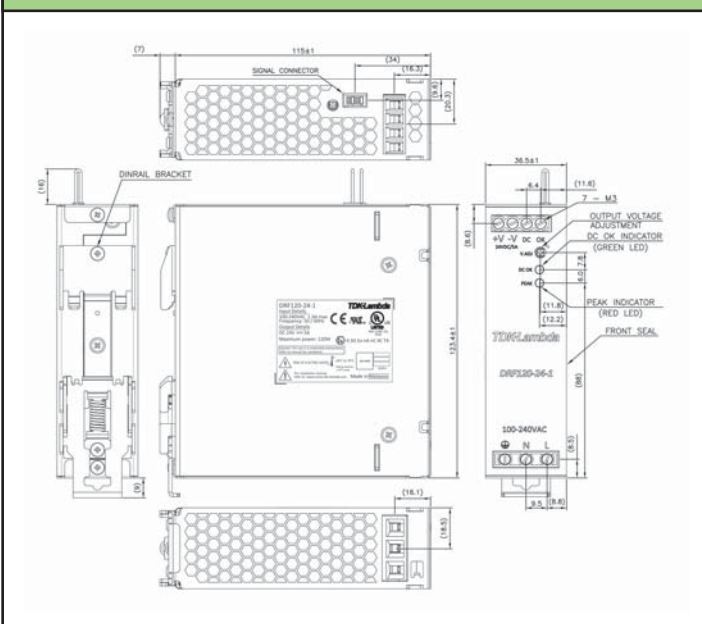
(2) See options table

(3) Operating period at peak output current is 4 sec, max duty cycle <35% & < rated output power

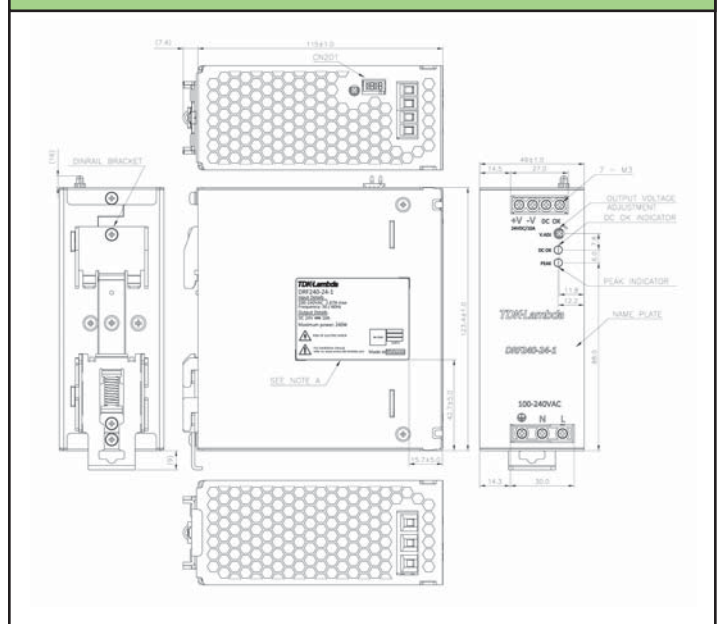
## Model Selector

| Model       | Output Voltage | Adjust Range | Max Current | Max Power | Peak Output Current (3) | Peak Output Power (3) |
|-------------|----------------|--------------|-------------|-----------|-------------------------|-----------------------|
| DRF120-24-1 | 24V            | 24 - 28V     | 5A          | 120W      | 7.5A                    | 180W                  |
| DRF240-24-1 | 24V            | 24 - 28V     | 10A         | 240W      | 15A                     | 360W                  |
| DRF480-24-1 | 24V            | 24 - 28V     | 20A         | 480W      | 30A                     | 720W                  |

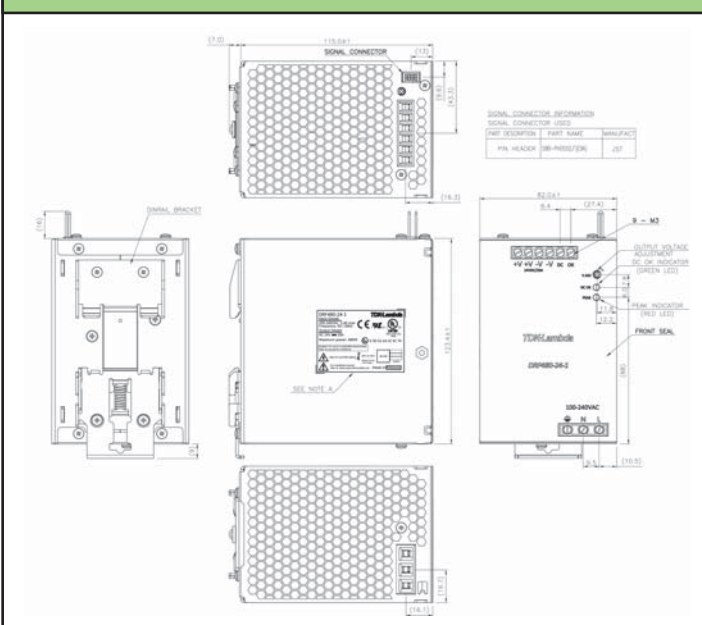
## Outline DRF120-24-1



## Outline DRF240-24-1



## Outline DRF480-24-1



## Options

| Suffix | Description                                       |
|--------|---|
| /HL    | ATEX, IEC EX, GL Certification (Incl pcb coating) |

For Additional Information, please visit [us.tdk-lambda.com/lp/products/dr-f-series.htm](http://us.tdk-lambda.com/lp/products/dr-f-series.htm)



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