

50W Single Output Din Rail Power Supply

HF50W-SDR Series



FEATURES

- Universal AC input / full range
- Installed on DIN rail TS35/ 7.5 or 15
- Top international brand components for key parts
- Built-in EMI filter
- DC OK signal output
- CE approved
- Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605DR 45 x 89.2 x 75.2mm

SPECIFICATIONS

| | |
|--------------------------------|--|
| Input Voltage | 85~264VAC (120~370VDC) |
| Input Current | 1.8A |
| Input Frequency | 47~63Hz |
| Inrush Current | cold start, 20A/115V, 40A/230V |
| Input Leakage Current | < 1mA/230VAC |
| Line Regulation (full load) | ± 0.5% |
| Voltage Adjust Range | ± 10% |
| Output Overload Protection | 105~150%, hiccup mode, auto recovery |
| Output Over Voltage Protection | 115~150%, shut off, re-power on to recover |
| Short Circuit Protection | hiccup mode, auto recovery |
| Rise Time | 50ms @full load (typical) |
| Hold up Time | 20ms @full load (typical) |
| Mechanical Feature | metal housing, din rail mounting |
| Dimensions | 45 x 89.2 x 75.2mm (L x W x H) |

| | |
|-----------------------|---|
| Operating Temperature | -20°C ~+70°C(ref. derating curve) |
| Storage Temperature | -20°C ~+85°C |
| Operating Humidity | 20%~93%RH(non condensing) |
| Storage Humidity | 20%~95%RH(non condensing) |
| MTBF | >100,000 hours |
| Cooling | convection |
| Safety Standards | UL508, UL60950, EN60950-1 approved |
| EMC Standards | GB9254, EN55022 Class B EN55024, EN61000-3-2,3 EN61000-4-2,3,4,5,6,8,11 |
| Withstand Voltage | I/P -O/P: 3.0KVAC/1min I/P - PE: 1.5KVAC/1min O/P-PE: 0.5KVAC/1min |
| Vibration | 10~150Hz, 2G 10min/1cycle, 30min each along X, Y, Z axes |
| Connection | 3P/7.5mm, 5P/5.0mm pitch plug-in type screw terminal block |
| Weight | 0.31kgs/pcs |

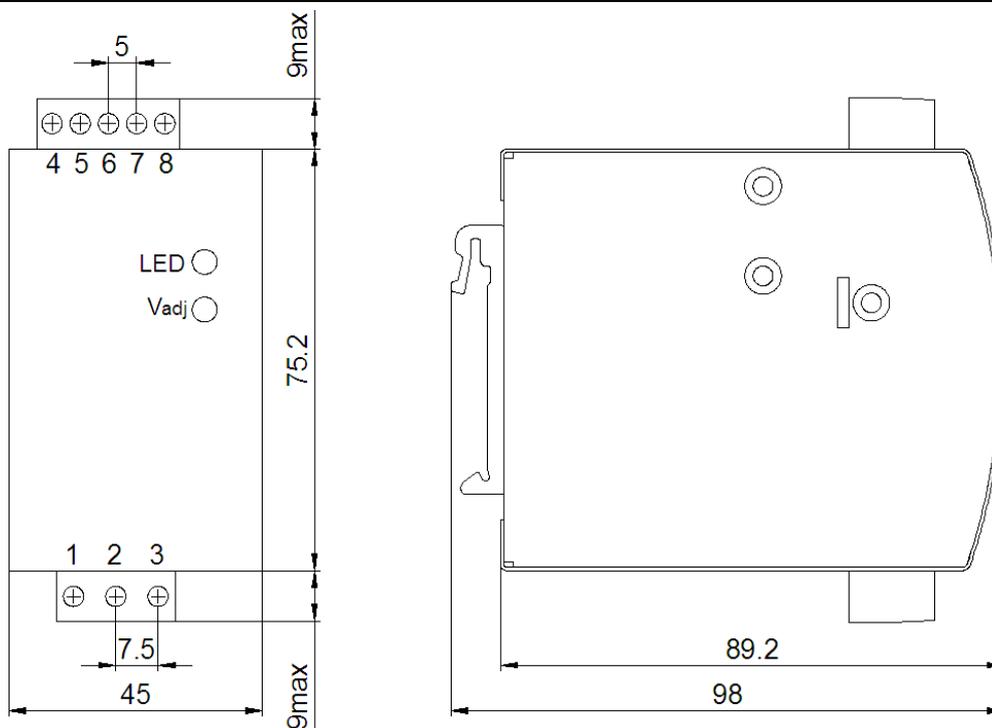
| Model No. | DC Output | Rated Power | Load Regulation | Voltage Tolerance | Ripple & Noise (max.) | Efficiency |
|----------------|------------|-------------|-----------------|-------------------|-----------------------|------------|
| HF50W-SDR-12 | 12V 4.2A | 50.4W | 0.5% | ± 1% | 120mVp-p | 80% |
| HF50W-SDR-13.8 | 13.8V 3.6A | 49.7W | 0.5% | ± 1% | 120mVp-p | 80% |
| HF50W-SDR-24 | 24V 2.1A | 50.4W | 0.5% | ± 1% | 150mVp-p | 80% |
| HF50W-SDR-48 | 48V 1.0A | 48.0W | 0.5% | ± 1% | 150mVp-p | 86% |

* 12~48VDC output all available

NOTE

1. All parameters are measured at 230VAC input, rated load and 25°C ambient temperature.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 0% to 100% of rated load for single output models. For multi-output models, it is measured from 20% to 100% of rated load, and other output at 60% rated load.
4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
5. The power supply is regarded as a component which will be installed into the final equipment. The final equipment must be re-confirmed that it still meets EMC directives.

Drawing



Terminal Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|--------------|
| 1 | AC/L | 4,5 | DC OUTPUT +V |
| 2 | AC/N | 6,7 | DC OUTPUT -V |
| 3 | PE | 8 | DC OK SIGNAL |

Derating Curve

