

Single Output Industrial Power Supplies

Features

- ◆ 5 Year Warranty
- ◆ Ultra Thin Package
- ◆ SEMI F47 Compliant (high line AC)
- ◆ Universal Input (85 - 265VAC)
- ◆ High Efficiency
- ◆ Wide range AC Input



Key Market Segments & Applications



| Specifications | | | | | | |
|----------------------------------|-----|--|---------------|---------------------|----------------|------|
| Model | | 50W | | 100W | 150W | 300W |
| Input Voltage range | (1) | 85 - 265VAC (47 - 440Hz), 120-370VDC | | | | |
| Input Current (100/200VAC) (Typ) | A | 0.7 / 0.4 | 1.5 / 0.75 | 1.9 / 1.0 | 2.0 / 4.0 | |
| Inrush Current (100/200VAC) | A | 14 / 28 | | | 15 / 30 | |
| Power Factor | - | Meets EN61000-3-2 | | | | |
| Overcurrent Protection | - | Yes, typically 105 - 125% (100 & 150W hiccup style) | | | | |
| Overvoltage Protection | V | Yes, typically 120-140%. Cycle input to reset | | | | |
| Hold Up Time (100/200VAC) | ms | >20 | | | | |
| Leakage Current (max at 240VAC) | mA | 0.6 | 0.45 | 0.65 | 0.75 | |
| Load Regulation | % | 0.4% (0-100% load change) | | | | |
| Line Regulation | % | 0.2% (85-132 or 170-265VAC line change) | | | | |
| Remote Sense | - | Yes | | | | |
| Current Share | - | No | | | Yes | |
| Remote On/Off | - | Yes, see instruction manual on website | | | | |
| DC Fail Signal | - | No | | | Yes | |
| Indicator | - | Green LED = ON | | | | |
| Operating Temperature | - | -10°C to +71°C, -20°C start up. See derating curves on website technical downloads | | | | |
| Storage Temperature | °C | -30 to +75°C | | | | |
| Humidity (non condensing) | - | 10 - 95%RH | | | | |
| Cooling | - | Convection | | | | |
| Withstand Voltage | - | Input to Ground 2kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min. | | | | |
| Isolation Resistance | - | >100M at 25C & 70%RH, Output to Ground 500VDC | | | | |
| Vibration (non operating) | - | 5 - 200Hz (10 min sweep), 19.6m/s ² , 1 hour (Amplitude 10mm) | | | | |
| Shock (Vertical mounting) | (3) | 196m/s ² | | 588m/s ² | | |
| Safety Agency Approvals | - | UL60950-1, CSA60950-1 (cUL), EN60950-1, CE Mark | | | | |
| Line Dip | - | Complies with SEMI F47 (200VAC line only) | | | | |
| Conducted & Radiated EMI | - | EN55011 / EN55022-B, FCC-B | | | | |
| Immunity | - | IEC61000-4-2 (Level 4), -3, -4 (Level 3), -5 (Level 4) | | | | |
| Weight (Typ) | g | 290 | 450 | 600 | 1300 | |
| Size (WxHxD) | in | 0.87x3.23x4.88 | 0.98x3.23x6.3 | 1.18x3.62x7.09 | 1.57x4.72x9.84 | |
| Warranty | yr | Five Years | | | | |

(1) Safety approvals do not cover DC input

(2) 100/200VAC

(3) Non operating, 11 ±5ms, 3 directions, 3 times each.

See website technical downloads for detailed information

Output Ratings

| Model | Voltage | Adj. Range | Max Curr. (A) | Max Pwr (W) | Ripple/Noise (mV) | Eff (typ)% ² | Pack. Size |
|------------|---------|-------------|---------------|-------------|-------------------|-------------------------|------------|
| RTW03-12R | 3.3V | 2.6 - 4.0 | 12.5 | 41.2 | 120 | 75 / 77 | 50W |
| RTW03-25R | 3.3V | 2.6 - 4.0 | 25 | 82.5 | 120 | 79 / 81 | 100W |
| RTW03-35R | 3.3V | 2.6 - 4.0 | 35 | 115.5 | 120 | 80 / 83 | 150W |
| RTW03-70RL | 3.3V | 1.8 - 3.6 | 70 | 231 | 120 | 83 / 86 | 300W |
| RTW05-10R | 5V | 4.0 - 5.8 | 10 | 50 | 120 | 80 / 82 | 50W |
| RTW05-20R | 5V | 4.0 - 5.8 | 20 | 100 | 120 | 83 / 85 | 100W |
| RTW05-30R | 5V | 4.0 - 5.8 | 30 | 150 | 120 | 83 / 86 | 150W |
| RTW05-60RL | 5V | 3.5 - 5.6 | 60 | 300 | 120 | 84 / 87 | 300W |
| RTW12-4R3 | 12V | 9.6 - 13.2 | 4.3 | 51.6 | 150 | 81 / 83 | 50W |
| RTW12-8R4 | 12V | 9.6 - 13.2 | 8.4 | 100.8 | 150 | 84 / 86 | 100W |
| RTW12-12R | 12V | 9.6 - 13.2 | 12.5 | 150 | 150 | 84 / 87 | 150W |
| RTW12-25RL | 12V | 7.2 - 14.4 | 25 | 300 | 150 | 83 / 86 | 300W |
| RTW15-3R5 | 15V | 12.0 - 16.5 | 3.5 | 52.5 | 150 | 82 / 85 | 50W |
| RTW15-6R7 | 15V | 12.0 - 16.5 | 6.7 | 100.5 | 150 | 85 / 87 | 100W |
| RTW15-10R | 15V | 12.0 - 16.5 | 10 | 150 | 150 | 84 / 87 | 150W |
| RTW15-20RL | 15V | 10.5 - 18.0 | 20 | 300 | 150 | 83 / 86 | 300W |
| RTW24-2R2 | 24V | 19.2 - 26.4 | 2.2 | 52.8 | 200 | 82 / 85 | 50W |
| RTW24-4R2 | 24V | 19.2 - 26.4 | 4.2 | 100.8 | 200 | 85 / 87 | 100W |
| RTW24-6R3 | 24V | 19.2 - 26.4 | 6.3 | 151.2 | 150 | 86 / 88 | 150W |
| RTW24-13RL | 24V | 16.8 - 26.4 | 13 | 312 | 200 | 85 / 88 | 300W |
| RTW28-1R8 | 28V | 22.4 - 30.8 | 1.8 | 50.4 | 200 | 82 / 85 | 50W |
| RTW28-3R6 | 28V | 22.4 - 30.8 | 3.6 | 100.8 | 200 | 85 / 87 | 100W |
| RTW28-5R4 | 28V | 22.4 - 30.8 | 5.4 | 151.2 | 200 | 86 / 88 | 150W |
| RTW28-11RL | 28V | 19.6 - 33.6 | 11 | 308 | 200 | 85 / 88 | 300W |
| RTW48-1R1 | 48V | 38.4 - 52.8 | 1.1 | 52.8 | 300 | 82 / 85 | 50W |
| RTW48-2R1 | 48V | 38.4 - 52.8 | 2.1 | 100.8 | 300 | 85 / 88 | 100W |
| RTW48-3R2 | 48V | 38.4 - 52.8 | 3.2 | 153.6 | 200 | 86 / 89 | 150W |
| RTW48-6R5L | 48V | 33.6 - 55.0 | 6.5 | 312 | 300 | 86 / 89 | 300W |

Options

| Suffix | Description |
|--------|--|
| Blank | No cover |
| L | Vertical terminal block (50-100W models only) |
| C | Cover (50W, 100W & 150W models) |
| H | Cover (300W models), Remove 'L' suffix when specifying |

Other Industrial Products

| | |
|----------------|---|
| HWS | 15W to 1500W Single Output |
| LZSA | 500W to 1500W Single output |
| DPP, DLP & DHP | 15W to 960W DIN Rail Mount |
| SWS | 50W to 1000W Single Output (Light industrial) |

For Additional Information, please visit
us.tdk-lambda.com/lp/products/rtw-series.htm



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