



- Universal AC input
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Isolation class II
- LED indicator for power on



| Model Number         | Output Volts | Output Amps | Min Load    | Efficiency | Ripple and Noise | DC Volt Adjust | OVP          |
|----------------------|--------------|-------------|-------------|------------|------------------|----------------|--------------|
| <b>SINGLE OUTPUT</b> |              |             |             |            |                  |                |              |
| DR60-5               | 5 Volts(DC)  | 6.5 Amps    | 0 ~ 6.5Amps | 76%        | 80mVpk-pk        | 4.75~5.5V      | 5.75~6.75V   |
| DR60-12              | 12 Volts(DC) | 4.5 Amps    | 0 ~ 4.5Amps | 82%        | 120mVpk-pk       | 11.1~13.2V     | 13.8~16.2V   |
| DR60-15              | 15 Volts(DC) | 4 Amps      | 0 ~ 4Amps   | 83%        | 120mVpk-pk       | 13.5~16.5V     | 17.25~20.25V |
| DR60 -24             | 24 Volts(DC) | 2.5 Amps    | 0 ~ 2.5Amps | 84%        | 150mVpk-pk       | 21.6~26.4V     | 27.6~32.4V   |

## 60W Single Output Industrial DIN Rail Power Supply

## DR60 series

### INPUT SPECIFICATIONS

|                                   |                                |
|-----------------------------------|--------------------------------|
| Input Voltage Range               | 90~264VAC / 124-370 Volts (DC) |
| Frequency Range                   | 47-63 Hz                       |
| Inrush Current, typ: (cold start) | 18 Amps @ 115VAC               |
|                                   | 36 Amps @ 230VAC               |
| Input Current                     | 1.2 Amps. @ 115VAC             |
|                                   | 0.8 Amps. @ 230VAC             |
| Leakage current                   | < 1mA / 240VAC                 |
| DC Voltage Adjust                 | See Selection Chart            |

### OUTPUT SPECIFICATIONS

|                            |                                      |
|----------------------------|--------------------------------------|
| Voltage and Current        | See Selection Chart                  |
| Line Regulation            | ±1%                                  |
| Load Regulation            | ±1%                                  |
| Voltage Tolerance (Note 2) | ±2% 5Volts(DC) only                  |
|                            | ±1% 12~24Volts(DC)                   |
| Ripple/Noise (Note 1)      | See Selection Chart                  |
| Hold Up Time @ FL          | 100mS @ 230VAC                       |
|                            | 23mS @115VAC                         |
| Setup, Rise Time @ FL      | 100ms, 30ms/230VAC                   |
|                            | 200mS, 30mS/115VAC                   |
| Over Current Protection    | 105~160% rated output power          |
|                            | Constant current limit, auto recover |
| Over Voltage Protection    | See Selection Chart                  |
|                            | Shut down o/p voltage, re-power      |
| DC Voltage Adjust          | See Selection Chart                  |

*All specifications are typical at nominal input, full load, and 25°C unless otherwise noted*

### GENERAL SPECIFICATIONS

|                       |                                   |
|-----------------------|-----------------------------------|
| Safety                | UL60950-1                         |
|                       | TUV EN60950-1 approved            |
|                       | Design refer to EN50178           |
| Insulation Resistance | ≥ 100MΩ / 500Volts(DC)            |
| EMI                   | Compliance to EN55022B (CISPR22B) |
| Harmonic Current      | Compliance to EN61000-3-2,-3      |
| Isolation             | 3000VAC Input - Output            |
| EMS                   | Compliance to                     |
|                       | EN61000-4-2, 3, 4, 5, 6, 8, 11,   |
|                       | ENV50204, EN55024, EN61000-6-2,   |
|                       | EN61204-3, heavy industry level,  |
|                       | criteria A                        |

### ENVIRONMENTAL SPECIFICATIONS

|                         |                                       |
|-------------------------|---------------------------------------|
| Oper. Temperature       | -20°C to +60°C (See derate curve)     |
| Storage Temperature     | -40°C to +85°C, 10~95% RH             |
| Relative Humidity       | 20 to +90% RH                         |
| Temperature Coefficient | ±0.03% / °C (0-50°C)                  |
| MTBF                    | 216.2K Hrs min, MIL-HDBK-217F(25°C)   |
| Vibration               | 10~500Hz, 2G10min./1cycle, period for |
|                         | 60min. each along X, Y, Z axes        |

### PHYSICAL SPECIFICATIONS

|             |                       |
|-------------|-----------------------|
| Size        |                       |
| Millimeters | 78 x 93 x 56          |
| Inches      | 3.07" x 3.66" x 2.20" |
| Weight      | 10.58 oz (300g)       |

### NOTE

1. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2. Tolerance: includes set up tolerance, line regulation and load regulation.



■ Derating Curve

