



■ Features :

- AC input 180~264VAC only
- 130% peak load capability
- 110mm slim design
- Built-in active PFC function compliance to BS EN/EN61000-3-2
- High efficiency 94% and low power dissipation
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit
- Can be installed on DIN rail TS-35/7.5 or 15
- UL508(industrial control equipment)approved
- BS EN/EN61000-6-2(BS EN/EN50082-2) industrial immunity level
- Current sharing up to 3840W(3+1)
- Built-in DC OK relay contact
- 100% full load burn-in test
- 3 years warranty



■ GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



**SPECIFICATION**

| MODEL                 | SDR-960-24  |   | SDR-960-48 |
|-----------------------|---|---|------------|
| OUTPUT                | DC VOLTAGE  | 24V   | 48V        |
|                       | RATED CURRENT   | 40A   | 20A        |
|                       | CURRENT RANGE   | 0 ~ 40A   | 0 ~ 20A    |
|                       | RATED POWER   | 960W  | 960W       |
|                       | PEAK CURRENT  | 52A   | 26A        |
|                       | PEAK POWER  | Note.6 1248W (3sec.)  |            |
|                       | RIPPLE & NOISE (max.)   | Note.2 180mVp-p   | 250mVp-p   |
|                       | VOLTAGE ADJ. RANGE  | 24 ~ 28V  | 48 ~ 55V   |
|                       | VOLTAGE TOLERANCE   | Note.3 ±1.0%  | ±1.0%      |
|                       | LINE REGULATION   | ±0.5%   | ±0.5%      |
| LOAD REGULATION       | ±1.0%   | ±1.0%   |            |
| SETUP, RISE TIME      | 1000ms, 100ms/230VAC at full load   |   |            |
| HOLD UP TIME (Typ.)   | 14ms / 230VAC at full load  |   |            |
| INPUT                 | VOLTAGE RANGE   | Note.7 180 ~ 264VAC 254 ~ 370VDC  |            |
|                       | FREQUENCY RANGE   | 47 ~ 63Hz   |            |
|                       | POWER FACTOR (Typ.)   | PF ≥0.95/230VAC at full load  |            |
|                       | EFFICIENCY (Typ.)   | 94%   | 94%        |
|                       | AC CURRENT (Typ.)   | 6A/230VAC   |            |
|                       | INRUSH CURRENT (Typ.)   | COLD START 50A / 230VAC   |            |
| LEAKAGE CURRENT       | <3.5mA / 240VAC   |   |            |
| PROTECTION            | OVERLOAD  | Normally works within 105 ~ 130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed<br>Constant current limiting within 130 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover |            |
|                       | OVER VOLTAGE  | 29 ~ 33V  | 56 ~ 65V   |
|                       | OVER TEMPERATURE  | Shut down o/p voltage, recovers automatically after temperature goes down   |            |
| FUNCTION              | DC OK REALY CONTACT RATINGS (max.)  | 60Vdc/0.3A, 30Vdc/1A, 30Vac/0.5A resistive load   |            |
|                       | CURRENT SHARING   | Please refer to function manual   |            |
| ENVIRONMENT           | WORKING TEMP.   | Note.5 -30 ~ +70°C (Refer to "Derating Curve")  |            |
|                       | WORKING HUMIDITY  | 20 ~ 95% RH non-condensing  |            |
|                       | STORAGE TEMP., HUMIDITY   | -40 ~ +85°C, 10 ~ 95% RH non-condensing   |            |
|                       | TEMP. COEFFICIENT   | ±0.03%/°C (0 ~ 50°C)  |            |
|                       | VIBRATION   | Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6  |            |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS  | UL508, TUV BS EN/EN62368-1, BSMI CNS14336-1, AS/NZS62368.1, EAC TP TC 004 approved ; (meet BS EN/EN60204-1)   |            |
|                       | WITHSTAND VOLTAGE   | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC O/P-DC OK:0.5KVAC   |            |
|                       | ISOLATION RESISTANCE  | I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C / 70% RH   |            |
|                       | EMC EMISSION  | Note.8 Compliance to BS EN/EN55032 (CISPR32), BS EN/EN61204-3 Conduction class B, Radiation class A, BS EN/EN61000-3-2,-3, EAC TP TC 020, BSMI CNS13438   |            |
| EMC IMMUNITY          | Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, BS EN/EN61000-6-2 (BS EN/EN50082-2), BS EN/EN61204-3, heavy industry level, EAC TP TC 020  |   |            |
| OTHERS                | MTBF  | 660.2K hrs min. Telcordia SR-332 (Bellcore) ; 70.7K hrs min. MIL-HDBK-217F (25°C)   |            |
|                       | DIMENSION   | 110*125.2*150mm (W*H*D)   |            |
|                       | PACKING   | 2.47Kg ; 6pcs/15.8Kg/1.55CUFT   |            |
| NOTE                  | <p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives.</p> <p>5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.</p> <p>6. 3 seconds peak power max. and the average output power should not exceed the rate power.</p> <p>7. Derating may be needed under low input voltage. Please check the derating curve for more details.</p> <p>8. Consult MEAN WELL for deployment of Radiation class B.</p> <p>9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p> |   |            |