

**75W SINGLE OUTPUT industrial DIN RAIL POWER SUPPLY**

**Single Output Industrial Power Supply**  
**NDR-75 Series**



- Features
- Universal AC input / Full range
- Protections: short circuit/Overload / Over Voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508 (industrial control equipment) approved
- EN61000-6-2(EN50082-2) industrial immunity level



| MODEL               |  | NDR-75-24   | NDR-75-48 |
|---------------------|--|---|-----------|
| OUTPUT              | DC VOLTAGE   | 24V   | 48V       |
|                     | RATED CURRENT  | 3.2A  | 1.6A      |
|                     | CURRENT RANGE  | 0 ~ 3.2A  | 0 ~ 1.6A  |
|                     | RATED POWER  | 76.8W   | 76.8W     |
|                     | RIPPLE & NOISE (max.)<br>Note.2  | 120mVp-p  | 150mVp-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   | 1200ms, 60ms/230VAC 2000ms, 60ms/115VAC at full load  |           |
| HOLD UP TIME (Typ.) | 60ms/230VAC 12ms/115VAC at full load   |   |           |
| INPUT               | VOLTAGE RANGE<br>Note.6  | 90 ~ 264VAC 127 ~ 370VDC<br>[DC input operation possible by connecting AC/L(+), AC/N(-)]  |           |
|                     | FREQUENCY RANGE  | 47 ~ 63Hz   |           |
|                     | EFFICIENCY (Typ.)  | 88%   | 89%       |
|                     | AC CURRENT (Typ.)  | 1.45A/115VAC 0.9A/230VAC  |           |
|                     | INRUSH CURRENT (Typ.)  | 20A/115VAC 35A/230VAC   |           |
| LEAKAGE CURRENT     | <1mA / 240VAC  |   |           |
| PROTECTION          | OVERLOAD   | 105 ~ 130% rated output power<br>Protection type : Constant current limiting, recovers automatically after fault condition is removed |           |
|                     | OVER VOLTAGE   | 29 ~ 33V  | 56 ~ 65V  |
|                     | OVER TEMPERATURE   | Protection type : Shut down o/p voltage, re-power on to recover   |           |
| ENVIRONMENT         | WORKING TEMP.  | -20 ~ +70°C (Refer to "Derating Curve")   |           |
|                     | WORKING HUMIDITY   | 20 ~ 95% RH non-condensing  |           |
|                     | STORAGE TEMP., HUMIDITY  | -40 ~ +85°C, 10 ~ 95% RH  |           |
|                     | 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        | SAFETY STANDARDS   | UL508, TUV EN60950-1, EAC TP TC 004 approved;(meet EN60204-1)   |           |
|                     | WITHSTAND VOLTAGE  | I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC   |           |
|                     | ISOLATION  | I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25°C/ 70% RH  |           |

|                 |  |  |
|-----------------|--|--|
| <b>(Note 4)</b> | <b>RESISTANCE</b>  |  |
|                 | <b>EMC EMISSION</b>  | Compliance to EN55032 (CISPR32), EN61204-3 Class B, EN61000-3-2,-3, EAC TP TC 020  |
|                 | <b>EMC IMMUNITY</b>  | Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), EN61204-3, heavy industry level, criteria A, EAC TP TC 020 |
| <b>OTHERS</b>   | <b>MTBF</b>  | 486.2K hrs min. MIL-HDBK-217F (25°C)   |
|                 | <b>DIMENSION</b>   | 32*125.2*102mm (W*H*D)   |
|                 | <b>PACKING</b>   | 0.51Kg; 28pcs/15.3Kg/1.22CUFT  |
| <b>NOTE</b>     | <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. Derating may be needed under lower input voltage. Please check the derating curve for more details.</p> <p>7. 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> |  |