

LD-7548NDR

75W/48V/2.5A INDUSTRIAL DIN RAIL POWER SUPPLY FOR INDUSTRIAL 4~8PORT POE SWITCHES



FEATURES

1. Meet EMC Standard
2. 100% full load aging test
3. Power Input: AC100-240V, 50-60Hz 2A
4. Wide operation temperature range: -20°C-70°C
5. High efficiency, long life time and high reliability
6. Support production for short circuit/over current/over voltage

PRODUCT DESCRIPTION

LD-7548NDR is an economical 120W DIN rail power supply that conforms to German industrial standards. It is suitable for installation on TS-35/7.5, or TS-35/15 rails, using 100VAC to 240VAC input, and complies with EN61000-3-2 Standard on Harmonic Current Specifications Specified by the European Union. It adopts a metal

APPLICATIONS

1. Industrial Control System
2. Semiconductor fabrication equipment
3. Factory automation
4. Electro-mechanical apparatus

PRODUCT PARAMETERS

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| Model | LD-7548NDR |
| Output | |
| Group of Output | 1 |
| DC Voltage | 48VDC |
| Output Voltage Factory setting | 48.00-48.2VDC (Vin: 220Vac / Load: 0A) |
| Output Rated Current | 1.57A |
| Output Current Range | 0- |
| Rated Output Power | 2.0A |
| Total Peak Output Power | 75W 75W (sustainable time 10S/220VAC) |
| Peak Output Current | 2.5A (sustainable time 10S/220VAC) |

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| Output Voltage Range | 47-56VDC |
| Stabilized Voltage Precision | ±1% (48.48VDC-47.52VDC) |
| Line Regulation | ±0.5%(48.24VDC-47.76VDC), (@ 85-264VAC input, 100% load) |
| Load Regulation | ±1% (48.48V-47.52V), (@ 85-264Vac input, 0- 100% load) |
| Output Start Time | <1.5S @ nominal input (100% load) |
| Output Hold Time | >20ms @ 115VAC, >1250ms @ 230VAC (100% load) |
| Voltage Overshoot | ≤5.0% |
| Input | |
| Input Voltage Range | 100-240VAC |
| Input Rated Voltage Range | 100-240VAC |
| Frequency Range | 47Hz-63Hz 50Hz/60Hz 100VAC |
| Rated Frequency | >85.0% @115VAC, >89.0% @ 230VAC |
| Starting Voltage | <2.0A @ 115VAC, <0.80A @ 230VAC |
| Efficiency | <20A @ 115VAC, <35A@230VAC |
| Input Current | PF>0.6 (at full load) |
| Start Inrush Current | |
| Power Factor | |
| Protection | |
| Output Over Power | 75W Swing machine (Testing method: Increase the output current until enabling the protection. Protection mode:Swing machine, Self-recovery after over-power released.) |
| Output Over Voltage | 48V Swing machine (Short circuit the Pin1-2 of U8, swing machine.Output recovery to normal after removing the short circuit) Note: Do not use external voltage. |
| Output Over Current | 2.0A Swing machine (Testing method: Increase the output current |
| | until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.) |

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| Operation Environment | |
| Operation TEMP /Humidity | -40°C-70°C, 20%-95%RH No condensing |
| Storage TEMP /Humidity | -40°C-85°C, 10%-95%RH No condensing |
| Temperature Coefficient | ±0.03%/°C (0-50°C) |
| Vibration | Frequency range 10-500Hz, acceleration 2G, each sweep cycle 10min. 6 sweep cycles along the X, Y, and Z axes |
| Impact | Acceleration 20G, duration 11ms, 3 shocks along X, Y, and Z axis each |
| Altitude | 2000m |
| Safety and Electromagnetic Compatibility Standard | |
| Security Standard | GB4943/EN62368- 1 Reference Certification |
| Dielectric Strength | Input-Output: 3KVAC/ 10mA, Input--Case:1.5KVAC/ 10mA Output---Case: 0.5KVDC/ 10mA , Time for each testing is 1min. |
| Ground Test | Test conditions: 32A/2 minutes, Ground impedance: <0. 1 ohms. |
| leakage Current | Input to ground ≤3.5mA, Input to output ≤0.25mA (Input 264VAC,Frequency 63Hz) |
| Insulation Resistance | Input-Output: 10M ohms |
| Conducted Disturbance | EN55022, EN55024, FCC PART 15 Class B |
| Radiated Interference | EN55022, EN55024, FCC PART 15 Class B |
| Harmaonic Current | EN61000-3-2 Class D |
| Conducted Disturbance | EN61000-4-6 Level 3 |
| Radiation Harassment | EN61000-4-3 Level 3 Class B |
| Power Frequency | EN61000-4-8 Level 3 |
| Static Harassment | EN61000-4-2 Level 4 Class B |
| fast Burst | EN61000-4-4 Level 4 Class B |
| Lightning Strike (Surge) | EN61000-4-5 Level 4 Class B |
| interrupted Fall | EN61000-4- 11 |

DIMENSIONS

