

LD-12048NDR

120W/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-12048NDR 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

Model	LD-12048NDR
Output	
Group of Output	1
DC Voltage	48VDC
Output Voltage Factory setting	48.00-48.2VDC (Vin: 220Vac / Load: 0A)
Output Rated Current	2.5A
Output Current Range	0- 2.5A
Rated Output Power	120W
Total Peak Output Power	120W (sustainable time 10S/220VAC)
Peak Output Current	2.5A (sustainable time 10S/220VAC)

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	120W 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	2.5A Swing machine (Testing method: Increase the output current
	until enabling the protection. Protection mode:Swing machine, Self-recovery after over-current released.)

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

