Power Supply Series
LPS-SDR-240-48

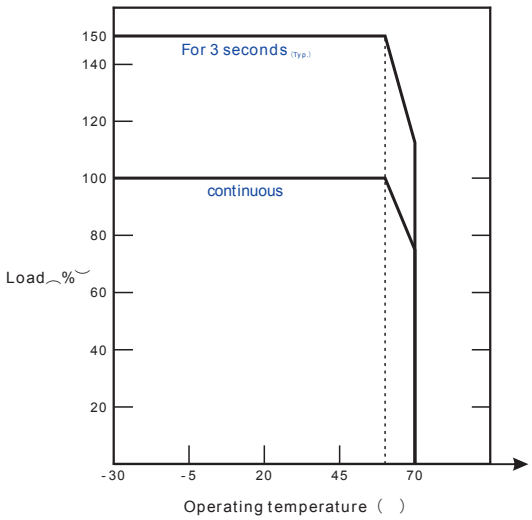


ELECTRICAL SPECIFICATIONS

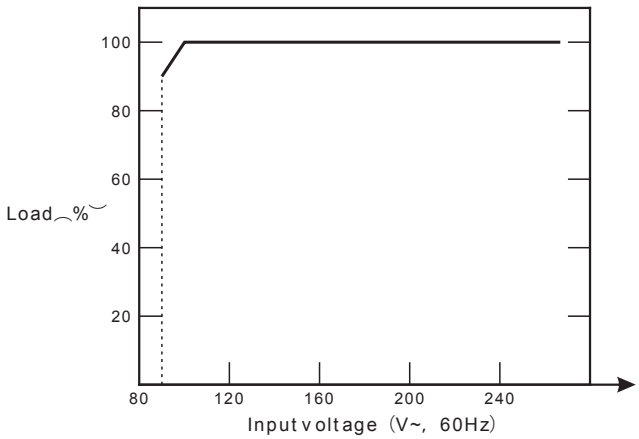
Model category			SDR-240-48
Output	DC voltage		48V
	Rated current		5.0A
	Peak current		240.0W
	Rated power		7.5A
	Peak power	360.0W（3 seconds）	
	Ripple and Noise (maximum)		480mV$_{P-P}$
	Voltage adjustment range		48.0-55.0V
	Voltage accuracy		±1%
	Linear regulation		±0.5%
	Load regulation		±1%
	Start-up, rise time	1500ms，60ms/230V~ 3000ms，60ms/115V~（full load）	
	Hold time (Typ.)	20ms/230V~ 20ms/115V~（full load）	
Input	Voltage range	90-264V~	
	Frequency range	47-63Hz （50/60Hz）	
	Power Factor (Typ.)	0.93/230V~ 0.99/115V~（full load）	
	Efficiency (Typ.)	93%	93%
	Alternating current	2.6A/115V~ 1.3A/230V~	
	Inrush current	Cold start 33A/115V~ 65A/230V~	
	leakage current	＜1mA/240V~	
Protect	Overload	When the rated output power is 110%~150%, the output voltage will be turned o ff after more than 3 seconds of normal operation and can be automatically restored	
		When >150% of the rated output power, the constant current is limited within 2 seconds and automatically recovered, and the output voltage may be turned o ff after 2 seconds.	
	Overvoltage	29.0-33.0V	56.0-65.0V
		Protection mode: shut down the output voltage and recover automatically	
	Short circuit	Hiccup mode, power re starts automatically	
	Overheat	Detect the radiator of the power switch, turn o ff the output when the temperature reaches 100°C over-temperature point, and automatically restore when the temperature drops to 75°C	
Function	DC OK relay contacts	60VDC/0.3A、30VDC/1.0A、30VAC/0.5A resistive load	
Environment	Operating temperature	-25 -+70	
	Working humidity	20%-95%RH, non-condensing	
	Storage temperature, humidity	-40 -+ 85 ， 10%-95%RH, non-condensing	
	Temperature coefficient	±0.03%/ （0 - 50 ）	
	Vibration resistance	10~500Hz, 2G 10 minutes/period, X, Y, Z each 60 minutes; installation: conform to IEC60068-2-6	
Safety Electromagnetic Compatibility	Safety regulations	Design reference 4943、UL508、EN62368	
	Withstand voltage	I/P-O/P ：3KVAC、I/P-FG：2KVAC、O/P-FG：0.5KVAC、O/P-DC OK：0.5KVAC	
	Insulation resistance	I/P-O/P、I/P-FG、O/P-FG：＞100M Ohms/500VDC/25 /70%RH	
	EMC launch	BS EN/EN55032、BS EN/EN61000-3-2 、BS EN/EN61000-3-3	
	EMC Immunity	BS EN/EN61000-6-2	
Other	MTBF	100,000 hours (min) MIL-HDBK-217F (25°C) MIL-HDBK-217F （25 ）	
	Dimensions	Height (H)* Depth (D)* Width (W) : 126.6*111.0*66.1mm	
	Applicable guide rail	TS35/7.5 or TS35/15 DIN rail	

Remark	1. Unless otherwise specified, all specifications are measured at an input of 230V~, rated load, and an ambient temperature of 25°C. 2. Ripple and noise measurement method: use a 12" twisted pair, and connect 0.1uF and 47uF capacitors in parallel at the terminal, and measure at a bandwidth of 20MHz. 3. Error: including setting error, linear adjustment rate and load adjustment rate . 4. The power supply is regarded as an independent component , but the final power supply still needs to be confirmed in conjunction with the terminal equipment for electromagnetic compatibility. 5. Installation distance: when the full power is permanently loaded, the recommended top distance is 40mm, the bottom distance is 20mm, and the distance between the left and right sides is 5mm. If the adjacent equipment is a heat source, the recommended space distance is 15mm. 6. The peak power lasts up to 3 seconds, and the average output power cannot exceed the rated power. 7. The actual output refers to the static charact eristic curve (load-input voltage) and derating curve (load-ambient temperature). 8. When the altitude exceeds 2000 meters, the ambient temperature of the model will rise at 3.5°C/1000 meters.

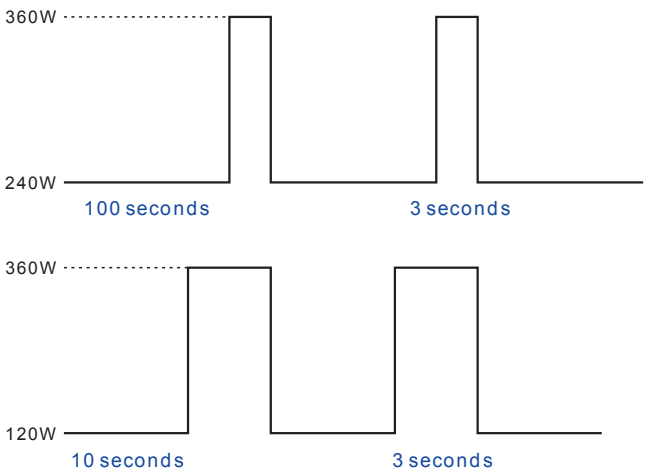
DERATING CURVE



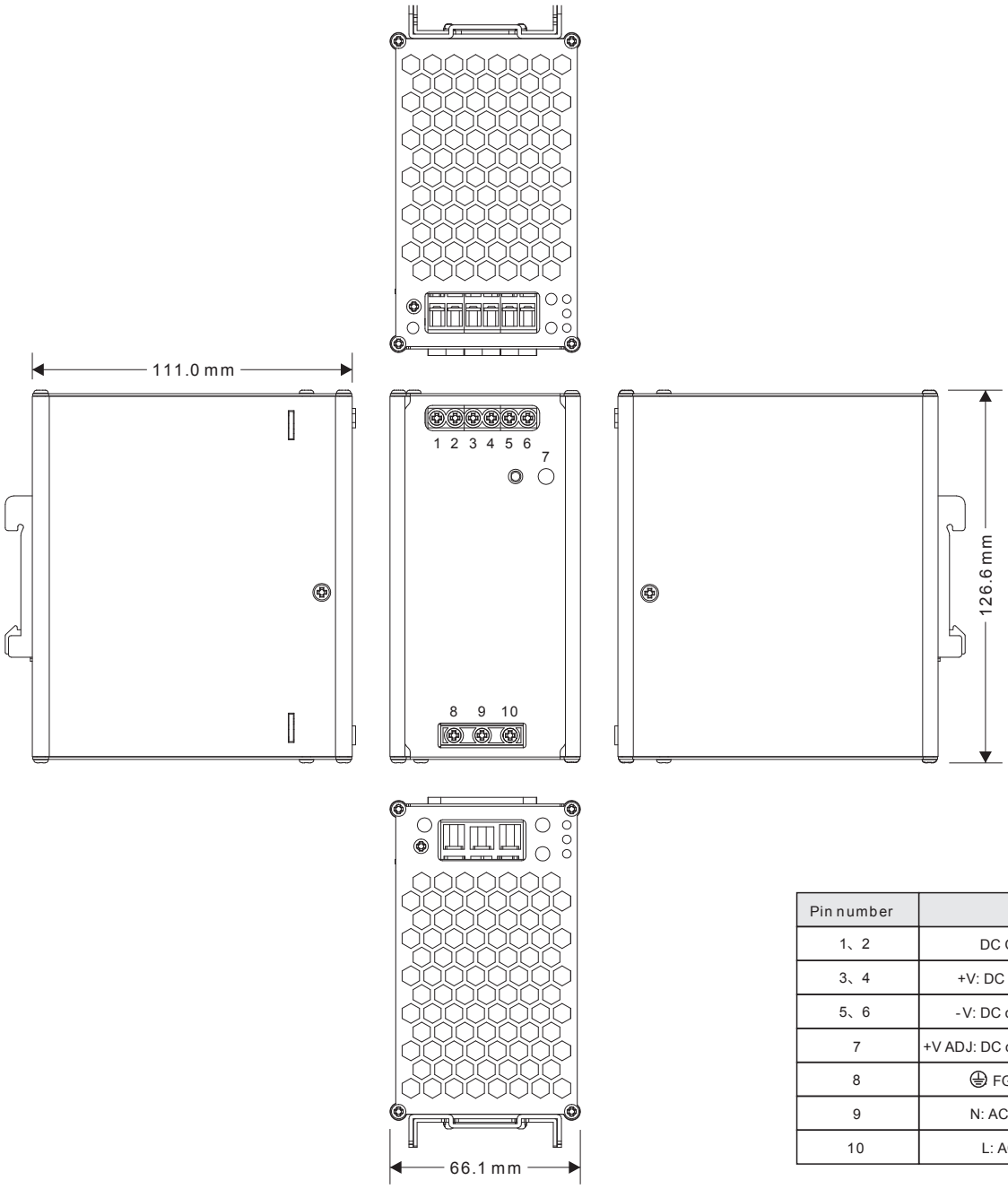
STATIC CHARACTERISTIC CURVE



PEAK LOAD CURVE

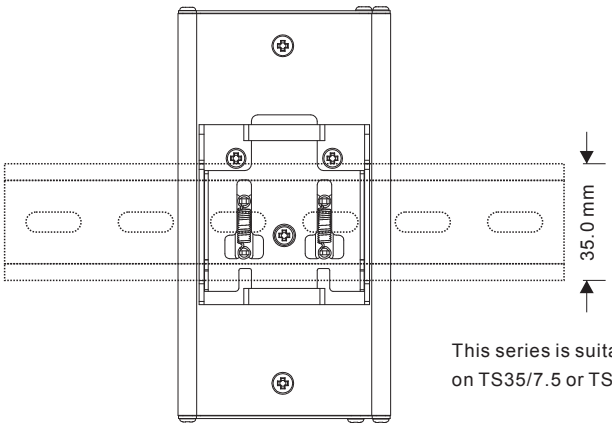


POWER STRUCTURE SIZE



Pin number	Pin function
1、2	DC OK: relay contact
3、4	+V: DC output positive pole
5、6	-V: DC output negative pole
7	+V ADJ: DC output voltage regulation
8	⏚ FG ground terminal
9	N: AC/mains neutral line
10	L: AC/mains live wire

POWER SUPPLY INSTALLATION REFERENCE



This series is suitable for installation on TS35/7.5 or TS35/15 DIN rail.

DC OK RELAY TRIGGERS

contact closed	Power On/DC OK
contact open	Power Shutdown/DC Fail
contacts (max.)	30V1A resistive load

Corporate Headquarters
2012 Hartog Dr, San Jose, CA, 95131, U.S.A.
PHONE +1.408.392.9800 FAX +1.408.392.9812 EMAIL sales@inscapedata.com

© Copyright 2023, Inscape Data Corporation, All Rights Reserved. LinkPower,and Inscape Data are trademarks of Inscape Data Corporation,Revision 1.8. Disclaimer: While every effort is made to ensure the information given is accurate, Inscape Data Corporation does not accept liability for any errors or mistakes which may arise. All specifications areubject to change without notice.