1000W DC/DC CONVERTER with CONSTANT CURRENT FEATURES 1K0-48DXX

ساخت ایران بخریم، ایران ساخته خواهد شد.

Features:

+WIDE DC input / 36-80VDC
Can use as 2 Stage battery Charger
+Optional 150% peak load capacity for 30 sec
Protection: Short circuit / Overload / Over Voltage
Protection by internal fuse
Thermo On/Off control Fan, Charging Fan
+Optional Relay contact signal output for DC OK
+Optional Remote ON-Off control
+Optional active current sharing up to (1+1)
Cooling by free air convection(400W)
100% full load burn-in test
2 years warranty

Applications:

Security systems
Emergency Lighting system
Alarm system
UPS system
Central monitoring system
Access systems

1K0-48D◯◯ series is a 1000W DC/DC Converter with constant current limiting feature in output, allowing the input range between 36VDC and 80VDC. In addition to primary output, This Converter can use as battery charger for UPS application, with the smaller rated current, that need online power application for security access system required.
1K0-48D◯◯ delivers an efficiency up to 80%; It can operate with air convection under -20°C through +60°C. This series is designed with thorough alarm features, can adding DC OK signaling; Morever, the relay contact is provided to facilitate users system designs.

Main MODEL:

12VDC: 1K0-48D12
24VDC: 1K0-48D24
48VDC: 1K0-48D48
110VDC: 1K0-48D110

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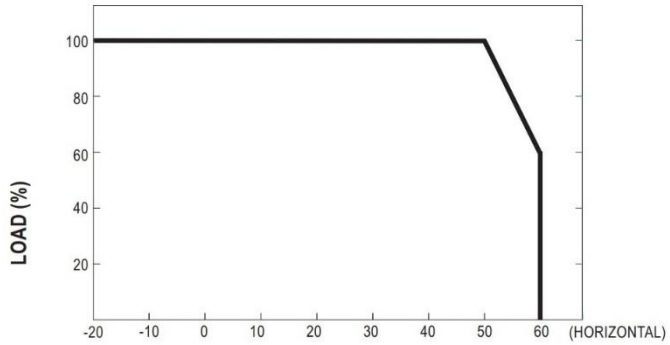
SPECIFICATION:

MODEL		1K0-48D12	1K0-48D24	1K0-48D48	1K0-48D110
OUTPUT	OUTPUT NUMBER	CH1	CH1	CH1	CH1
	DC VOLTAGE	12.0V	24.0V	48.0V	110.0V
	RATED CURRENT	60A	40A	21A	10.0A
	CURRENT RANGE	**0~60.0A**	**0~40.0A**	**0~20.0A**	**0~10.0A**
	RATED POWER	720W	960W	960W	1100W
	RIPPLE & NOISE(Note2)	150mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	CH1: 10~13.5V	CH1: 22~27.5V	CH1: 47~59V	CH1: 90~125V
	VOLTAGE TOLERANCE(Note2)	±1.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
	SETUP, RISE TIME Note.4	1500ms/48VDC/ 2000ms at full Load			
	HOLD UP TIME	40ms/48VDC at full Load			
INPUT	VOLTAGE RANGE	**36-72VDC**			
	EFFICIENCY (Typ.)	82%	84%	85%	85%
	DC CURRENT (Typ.)	**30A/48VDC**			
PROTECTION	OVERLOAD	105~125% rated output power			
		Protection type: Constant current Limiting, recovers automatically after fault condition is removed			
	OVER VOLTAGE	13.85~16.23VDC	28.98~32.66VDC	57.49~60.67VDC	131~145VDC
		Protection type: Shut down o/p voltage, re-power on to recover			
	OVER TEMP CONTROL	70°C ± 5°C (TSW1) DETECT ON MAIN HEATSINK			
ALARM FUNCTION	DC OK Note.5	OPTIONAL Relay contact output, ON: DC Okay; OFF: DC Fail; Max Rating: 30V-1A			
	Remote On/Off control	OPTIONAL Normal working CN3 is open, PSU is off if CN3 is short			
ENVIRONMENT	WORKING TEMP.	-20~+65°C REFER TO DERATING CURVE			
	WORKING HUMIDITY	20~90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20~+80°C, 10~90% RH			
	TEMP. COEFFICIENT	±0.03% /°C (0~45°C) on CH1 Output			
	VIBRATION	10~500Hz 2G 10min./ 1cycle, 60min each along X, Y, Z			
SAFETY & EMC (NOTE4)	SAFETY STANDARD	UL60950-1, TUV EN60950-1, EAC TP TC 004 approved			
	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC I/P-FG: 2.0KVAC O/P-FG: 0.5KVAC			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100MΩ / 500VDC / 25°C / 70%RH			
	EMC EMISSION	Compliance EN55032 (CISPR32) Class B, EN61000-3-2, -3, EAC TP TC 020			
	EMC IMMUNITY	Compliance EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A			
OTHERS	MTBF	257K hrs. min. MIL-HDBK-217F (25°C)			
	DIMENSION	295*130*75mm			
	PACKING	2.3Kg; 6pcs/14 Kg			
NOTE	1. All parameters NOT specially mentioned are measured at 48VDC input, rated load and 25°C of ambient temp 2. Ripple & noise are measured at 20MHz of bandwidth by using 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor 3. Tolerance: includes set up tolerance. Line regulation and load regulation. 4. Length of set up time is measured at first cold start. Tuning ON/OFF the power supply may lead to increase of the set-up time., 5. Please refer to suggested application 6. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to EMI testing of components power supplier The ambient temp derating of 3.5°C/1000m with fan less model and 5°C/1000m with fan model for operating altitude higher than 2000m.				

■ Derating Curve



■ Output Derating VS Input Voltage