



ساخت ایران بخیریم، ایران ساخته خواهد شد.

#### Features:

- +WIDE DC input / 80-140VDC
- +Optional active PFC function
- Can use as 2 Stage battery Charger
- 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(500W)
- 100% full load burn-in test
- 2 years warranty

#### Applications:

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



**1K0-220DCC** series is a 1000W DC/DC Converter with constant current limiting feature in output, allowing the input range between 80VDC and 140VDC. 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.

**1K0-220DCC** delivers an efficiency up to 90%; It can operate with air convection under -20°C through +80°C. This series is designed with thorough alarm features, can adding DC OK signaling; Moreover, the relay contact is provided to facilitate users system designs.

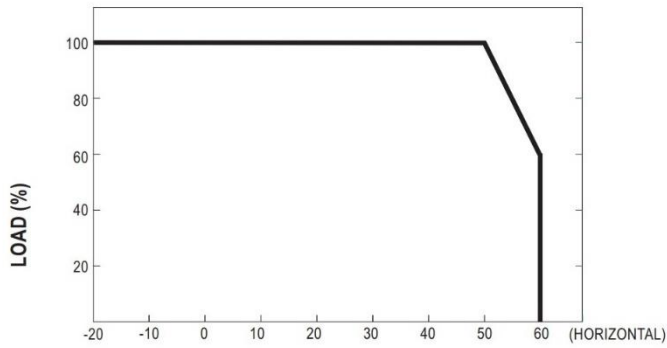
#### Main MODEL:

- 12VDC: 1K0-220S12(13.5 ~ 15 by order)
- 24VDC: 1K0-220S24(27 ~ 36 by order)
- 48VDC: 1K0-220S48(53 ~ 72 by order)
- 110VDC: 1K0-220S110 (220VDC CAN BE ORDERED)

**SPECIFICATION:**

MODEL		1K0-110D12	1K0-110D24	1K0-110D48	1K0-110D110
OUTPUT	OUTPUT NUMBER	CH1	CH1	CH1	CH1
	DC VOLTAGE	12.0V	24.0V	48.0V	110.0V
	RATED CURRENT	83A	41A	21A	9.1A
	CURRENT RANGE	<b>0-83.0A</b>	<b>0-41.7A</b>	<b>0-21.0A</b>	<b>0-10.0A</b>
	RATED POWER	996W	1000W	1000W	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/110VDC/ 2000ms at full Load			
	HOLD UP TIME	40ms/1100VDC at full Load			
INPUT	VOLTAGE RANGE	<b>80-140VDC</b>			
	EFFICIENCY (Typ.)	84%	86%	87%	89%
	DC CURRENT (Typ.)	20A/110VDC			
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
	OVER TEMP CONTROL	70°C ± 5°C (TSW1) DETECT ON MAIN HEATSINK			
ALARM FUNCTION	DC OK Note.5	<b>OPTIONAL</b> Relay contact output, ON: DC Okay; OFF: DC Fail; Max Rating: 30V-1A			
	Remote On/Off control	<b>OPTIONAL</b> Normal working CN3 is open, PSU is off if CN3 is short			
ENVIRONMENT	WORKING TEMP.	-20~+70°C REFER TO DERATING CURVE			
	WORKING HUMIDITY	20~90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20~+85°C, 10~90% RH			
	TEMP. COEFFICIENT	±0.03% /°C (0~45°C) on CH1 Output			
SAFETY & EMC (NOTE4)	VIBRATION	10~500Hz 2G 10min./ 1cycle, 60min each along X, Y, Z			
	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			
OTHERS	EMC IMMUNITY	Compliance EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A			
	MTBF	257K hrs. min. MIL-HDBK-217F (25°C)			
	DIMENSION	250*130*64mm			
NOTE	PACKING	2.3Kg; 6pcs/14 Kg			
		<p>1. All parameters NOT specially mentioned are measured at 110VDC input, rated load and 25°C of ambient temp</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using 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. 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.,</p> <p>5. Please refer to suggested application</p> <p>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</p> <p>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.</p>			

■ Derating Curve



■ Output Derating VS Input Voltage

