



#### Features:

- +wide AC input / 160-264AC
- Optional active PFC function
- Can use as 2 Stage battery Charger
- Protection: Short circuit / Overload / Over Voltage
- Protection by internal fuse
- On/Off control Fan, Charging Fan
- +Optional Relay contact signal output for AC OK
- +Optional Remote ON-Off control
- +Optional active current sharing up to (3+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



**600-220PSU** series is a 600W AC/DC security power supply, allowing the input range between 170VAC and 264VAC and incorporating optional PFC function. In addition to primary output, there is a charger output, with the smaller rated current, that provides the backup power supply application the security access system require.

**600-220PSU** delivers an efficiency up to 90%; It can operate with air convection under -20°C through +70°C. This series is designed with thorough alarm features, can adding AC OK signaling; Moreover, the relay contact is provided to facilitate users system designs.

#### MODEL :

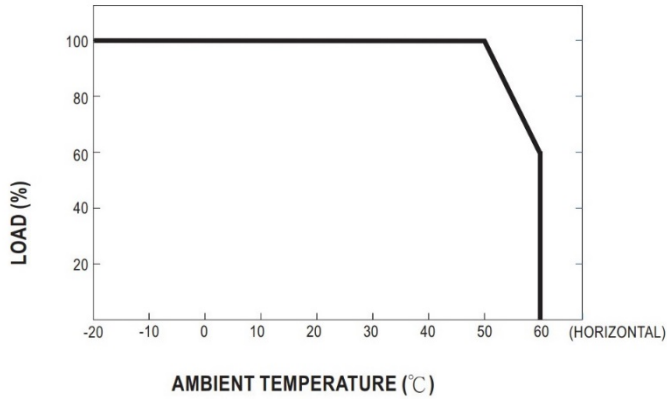
- 12VDC : 600-220S12
- 24VDC : 600-220S24
- 48VDC : 600-220S48
- 110VDC: 600-220S110
- 220VDC: 600-220S220 (CAN BE ORDERED)



MODEL	600-220PSU12	600-220PSU24	600-220PSU48	600-220PSU110	
OUTPUT	OUTPUT NUMBER	CH1	CH1	CH1	CH1
	DC VOLTAGE	12.0V	24.0V	48.0V	110.0V
	RATED CURRENT	50A	25A	12.5A	5.5A
	CURRENT RANGE	<b>0-50A</b>	<b>0-25A</b>	<b>0-12.5A</b>	<b>0-5.5A</b>
	RATED POWER	580W	572W	590W	610W
	RIPPLE & NOISE(Notes2)	150mVp-p	150mVp-p	150mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	CH1 : 12~15V	CH1 : 24~29V	CH1 : 47~59V	CH1 : 100~120V
	VOLTAGE TOLERANCE(Notes2)	±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	2000ms, 30ms/230VAC2000ms at full Load			
HOLD UP TIME	40ms/230VAC at full Load				
INPUT	VOLTAGE RANGE	175~265VAC			
	FREQUENCY RANGE	47~63Hz			
	POWER FACTOR (Typ.)	Without PFC circuit PF≥0.65/230VAC at full Load			
	EFFICIENCY (Typ.)	84%	86%	87%	89%
	AC CURRENT (Typ.)	12A/115VAC 8A/230VAC			
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 80A/230AC			
	LEAKAGE CURRENT	≤1mA/240VAC			
PROTECTION	OVERLOAD	101~105% rated output power Protection type: Constant current Limiting , recovers automatically after fault condition is removed			
	OVER VOLTAGE	14.49~18.63VDC	28.98~37.26VDC	55.49~60.63VDC	120~135VDC
	OVER TEMP CONTROL	Protection type: Shut down o/p voltage , re-power on to recover			
ALARM FUNCTION	AC OK Note.5	<b>OPTIONAL</b> Relay contact output, ON : AC Okay ; OFF : AC 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			
	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	250*130*64mm			
	PACKING	2.3Kg; 6pcs/14 Kg			
NOTE	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temp</li> <li>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</li> <li>3. Tolerance: includes set up tolerance. Line regulation and load regulation.</li> <li>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.,</li> <li>5. Please refer to suggested application</li> <li>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</li> </ol> <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

