



Features

- Universal AC input / Full range
- Built-in active PFC function
- 6"x3" compact PCB size
- Models with L-Bracket and cover available (PSC-160x-C, x=A,B)
- Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Relay contact signal output for AC OK and Battery Low
- Cooling by free air convection
- 100% full load burn-in test
- · 2 years warranty

Description

PSC-160 series is a 160W AC/DC security power supply, allowing the universal input range between 90VAC and 264VAC and incorporating the built-in PFC function. In addition to the primary output, there is a charger output, with the smaller rated current, that provides the backup power supply application the security access systems require.

PSC-160 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, including AC OK and battery low signaling; moreover, the relay contact is provided to facilitate users' system designs. PSC-160 is available in the PCB type or the enclosed type with L-Bracket and cover.

Model Encoding





Applications

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



PSC-160A-C

=Blank,-C ; Blank=PCB only, -C=Enclosed type

SPECIFICATION

MODEL		PSC-160A		PSC-160B	PSC-160B	
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	
OUTPUT	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V	
	RATED CURRENT	7.6A	4A	3.8A	2A	
	CURRENT RANGE	0~11.6A		0~5.8A		
	RATED POWER	160W		160W		
	RIPPLE & NOISE (max.) Note.2	150mVp-p		240mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 12 ~ 15V		CH1: 24 ~ 29V		
	VOLTAGE TOLERANCE Note.3	±1.0%		±1.0%		
	LINE REGULATION	±0.5%		±0.5%		
	LOAD REGULATION	±0.5%		±0.5%		
	SETUP, RISE TIME Note.4	2000ms, 30ms/230VAC	2000ms, 30ms/115	VAC at full load		
	HOLD UP TIME (Typ.)	40ms/230VAC 40ms/115VAC at full load				
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)		≥0.98/115VAC at fu	ll load		
NPUT	EFFICIENCY (Typ.)	88%		90%		
	AC CURRENT (Typ.)	2.5A/115VAC 1.5A/23	BOVAC	0070		
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC				
	LEAKAGE CURRENT	<1mA/ 240VAC				
PROTECTION		105 ~ 150% rated output power				
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed				
		CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V				
	OVER VOLTAGE	Protection type : Shut down	o/p voltage_re-powe			
	BATTERY CUT OFF	10±0.5V			20±1V	
ALARM FUNCTION	AC OK Note.5	Relay contact output, ON : AC OK ; OFF : AC Fail ; Max. rating : 30V / 1A				
				attery Low ; Max. rating : 30V / 1/	A	
	BATTERY LOW	Battery low voltage : < 11V			Battery low voltage : < 22V	
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-20 ~ +85℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0~45℃) on CH1 output				
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 approved				
SAFETY & EMC (Note 4)	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:100M Ohms / 500VDC / 25°C/ 70% RH				
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2,-3				
	EMC IMMUNITY	Compliance to 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	PCB:152.4*76.2*32mm (L*W*H) ; Enclosed type:155.4*85*37mm (L*W*H)				
	PACKING	PCB:0.35Kg;42pcs/15.7Kg/1.22CUFT ; Enclosed type: 0.45Kg;32pcs/15.4Kg/0.94CUFT				
NOTE	 All parameters NOT special Ripple & noise are measure Tolerance : includes set up t Length of set up time is mea Please refer to suggested A The power supply is consider 	ly mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Is at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. asured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time. pplication 2.(2) < (3) in page 3. rered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."				



160W Single Output with Battery Charger(UPS Function) **PSC-160** series





