

■ Features

- Universal AC input / Full range
- 3.3"x2" compact PCB size
- Models with L-Bracket and cover available (PSC-35x-C, x=A,B)
- Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Alarm signal for AC OK and Battery low
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

■ Applications

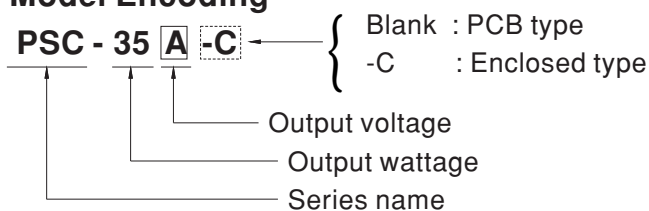
- Security system
- Emergency lighting system
- Alarm system
- UPS system
- Central monitoring system
- Access systems

■ Description

PSC-35 series is a 35W 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 a smaller rated current, providing the backup application the security access systems normally need.

PSC-35 delivers an efficiency up to 86%; it can operate with air convection under -30°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-35 is available in the PCB type (3.3" x 2") or the enclosed type with L-Bracket and cover.

■ Model Encoding

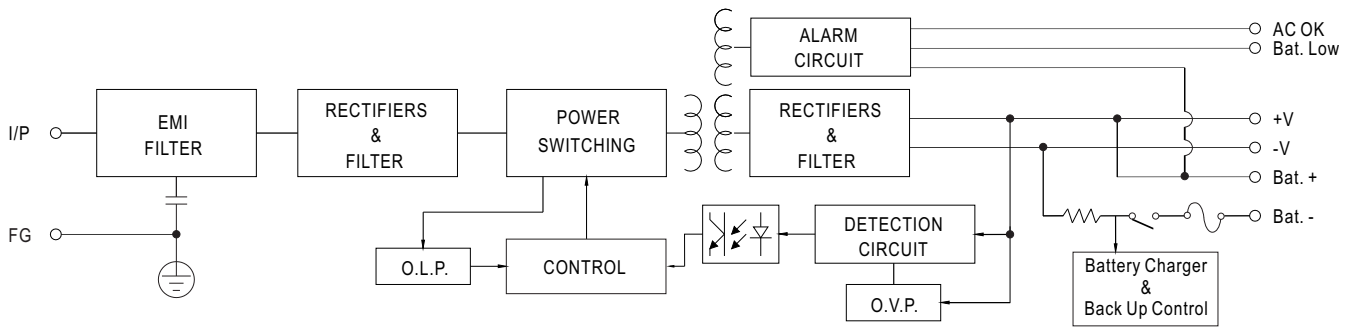


PSC-35A =Blank, -C ; Blank=PCB only, -C=Enclosed type

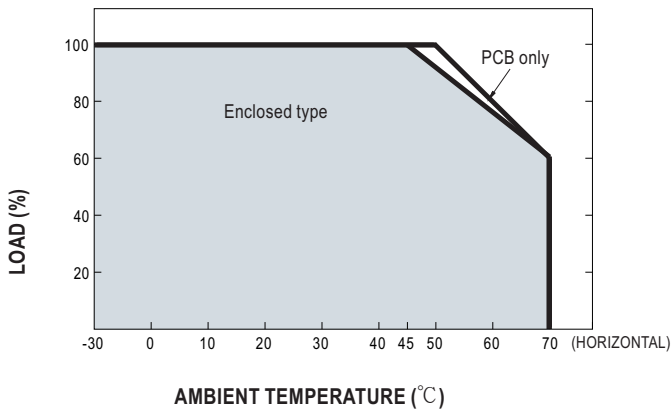
SPECIFICATION

MODEL		PSC-35A <input type="checkbox"/>		PSC-35B <input type="checkbox"/>	
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1	CH2
	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V
	RATED CURRENT	1.7A	0.9A	0.85A	0.45A
	CURRENT RANGE	0 ~ 2.6A	-----	0 ~ 1.3A	-----
	RATED POWER	35.88W		35.88W	
	RIPPLE & NOISE (max.) Note.2	120mVp-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	800ms, 50ms/230VAC 1600ms, 50ms/115VAC at full load			
	HOLD UP TIME (Typ.)	50ms/230VAC	10ms/115VAC at full load		
INPUT	VOLTAGE RANGE	90 ~ 264VAC	127 ~ 370VDC		
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	84%		86%	
	AC CURRENT (Typ.)	0.75A/115VAC	0.5A/230VAC		
	INRUSH CURRENT (Typ.)	COLD START 20A/115VAC	40A/230VAC		
	LEAKAGE CURRENT	<1mA / 240VAC			
PROTECTION	OVERLOAD	105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed			
	OVER VOLTAGE	CH1:14.49 ~ 19.5V	CH1:28.98 ~ 39.5V Protection type : Shut down O/P Voltage, repower on to recover		
	BATTERY CUT OFF	10±0.5V	20±1V		
FUNCTION	AC OK	TTL open collector output, ON : AC OK ; OFF : AC Fail ; Ice : max. 30mA@ 50VDC			
	BATTERY LOW	TTL open collector output, ON : Battery Low ; OFF : Battery OK ; Ice : max. 30mA@ 50VDC Battery low voltage : < 11V		Battery low voltage : < 22V	
ENVIRONMENT	WORKING TEMP.	-30 ~ +70°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C) on CH1 output			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
SAFETY & EMC (Note 4)	SAFETY STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC 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 BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020			
OTHERS	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55035, light industry level, EAC TP TC 020			
	MTBF	4114.3K hrs min. Telcordia SR-332 (Bellcore) ; 658.4K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	PCB:84.6*50.8*24mm (L*W*H) ; Enclosed type:86.4*59.6*30mm (L*W*H)			
NOTE	PACKING	PCB:0.092Kg;90pcs/9.28Kg/0.97CUFT ; Enclosed type: 0.145Kg;100pcs/15.5Kg/1.03CUFT			
	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 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. Turning ON/OFF the power supply may lead to increase of the set up time. 5. Heat sink HS1,HS2 can not be shorted. 6. Heat sink HS1 must have safety isolation distance with system case. 7. The power supply is considered a component which will be installed into a 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 component power supplies." (as available on http://www.meanwell.com) 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

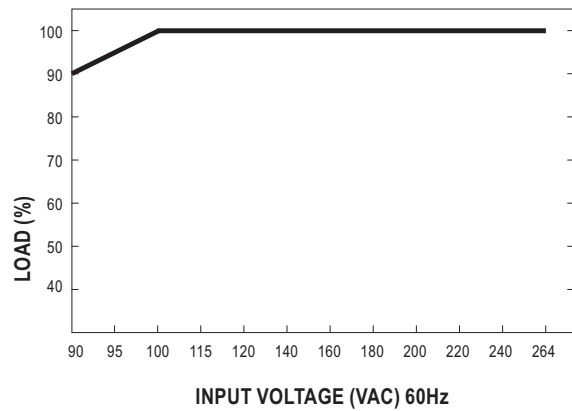
■ Block Diagram



■ Output Derating



■ Output Derating VS Input Voltage



■ Suggested Application

1. Backup connection for AC interruption

(1) Please refer to the Fig 1.1 for suggested connection.

The power supply charges the battery and provides energy to the load at the same time when the AC main is OK.

The battery starts to supply power to the load when the AC mains fails.

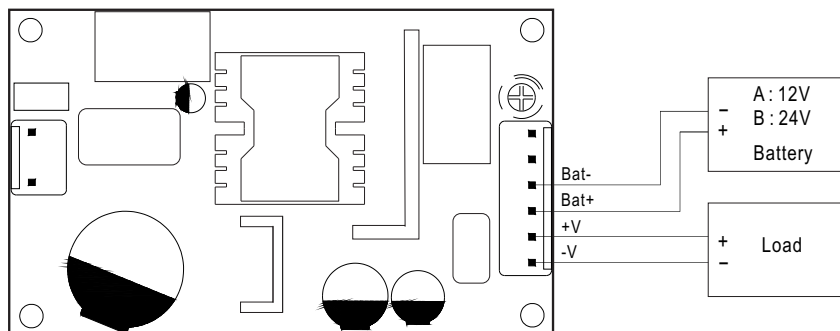


Fig 1.1 Suggested system connection

