

■ Features

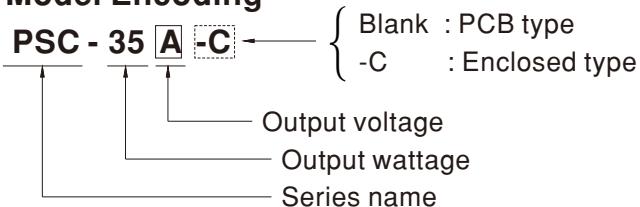
- Universal AC input / Full range
- 3.3"x2" compact PCB size
- Models with L-Bracket and cover available (PSC-35x-C, x=A,B)
- Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery reverse polarity protection by fuse
- Alarm signal for AC OK and Battery low
- Cooling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

■ 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



■ Applications

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



35W Single Output with Battery Charger(UPS Function)

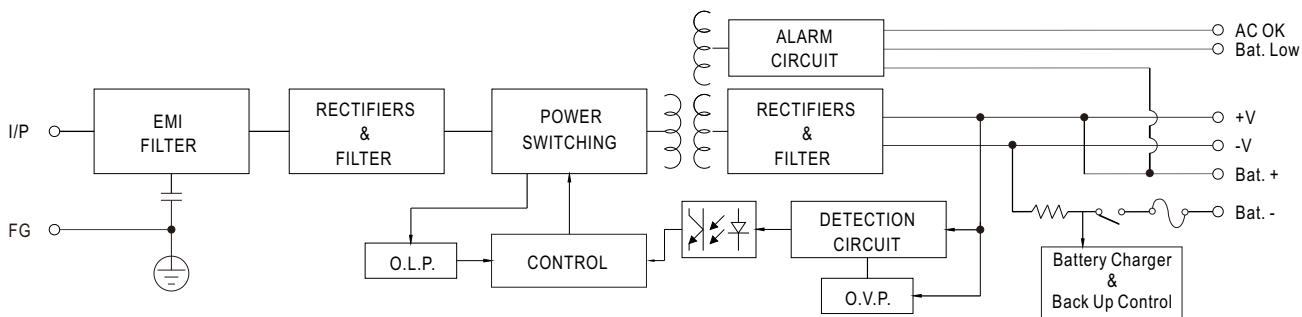
PSC-35 series

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

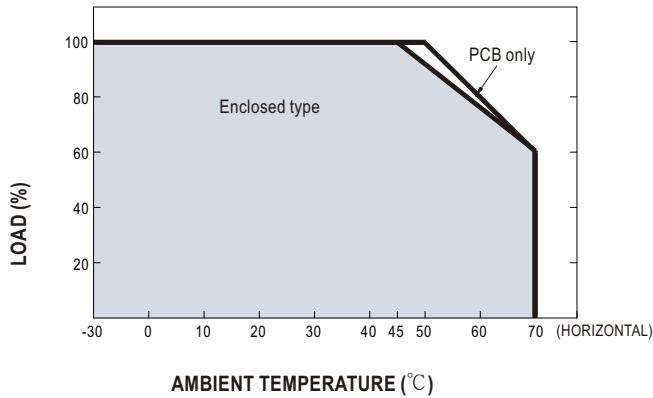
SPECIFICATION

MODEL	PSC-35A <input type="checkbox"/>		PSC-35B <input type="checkbox"/>	
OUTPUT	OUTPUT NUMBER	CH1	CH2	CH1
	DC VOLTAGE	13.8V	13.8V	27.6V
	RATED CURRENT	1.7A	0.9A	0.85A
	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%
INPUT	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	
PROTECTION	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	
FUNCTION	LEAKAGE CURRENT	<1mA / 240VAC		
	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	
	BATTERY CUT OFF	10±0.5V	20±1V	
ENVIRONMENT	AC OK	TTL open collector output, ON : AC OK ; OFF : AC Fail ; I _{ce} : max. 30mA@ 50VDC		
	BATTERY LOW	TTL open collector output, ON : Battery Low ; OFF : Battery OK ; I _{ce} : max. 30mA@ 50VDC		
		Battery low voltage : < 11V	Battery low voltage : < 22V	
SAFETY & EMC (Note 4)	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		
OTHERS	SAFETY STANDARDS	UL60950-1, TUV EN60950-1 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 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		
NOTE	MTBF	658.4 K 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)		
	PACKING	PCB:0.092Kg;90pcs/9.28Kg/0.97CUFT ; Enclosed type: 0.145Kg;100pcs/15.5Kg/1.03CUFT		

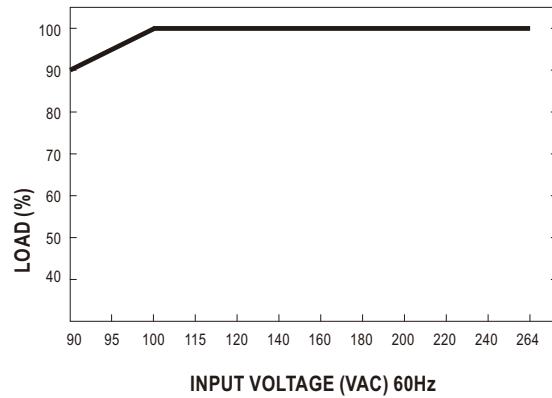
■ Block Diagram



■ Output Derating



■ Output Derating VS Input Voltage



■ Suggested Application

1. Backup connection for AC interruption

(1) Please refer to the Fig1.1 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.

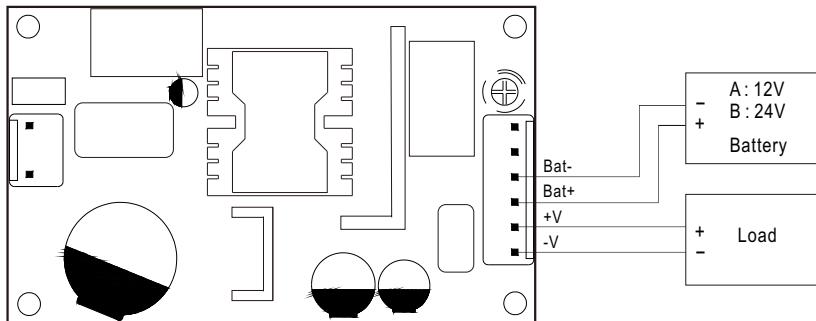


Fig 1.1 Suggested system connection

2. Alarm Signal for AC OK and Battery Low

- (1) Alarm Signal is sent out through "AC OK" & "Battery Low" pins.
- (2) An external voltage source is required for this function. The maximum applied voltage is 50V and the maximum sink current is 30mA.
- (3) Table2.1 explains the alarm function built in the power supply

Function	Description	Output of alarm
AC OK	The signal is "Low" when the power supply turns on	Low (0.3V max. at 30mA)
	The signal turns to be "High" when the power supply turns OFF	High or open(External applied voltage 50V max.)
Battery Low	The signal is "Low" when the voltage of battery is under A:11V, B:22V	Low (0.3V max. at 30mA)
	The signal is "High" when the voltage of battery is above A:11V, B:22V	High or open(External applied voltage 50V max.)

Table 2.1 Explanation of Alarm Signal

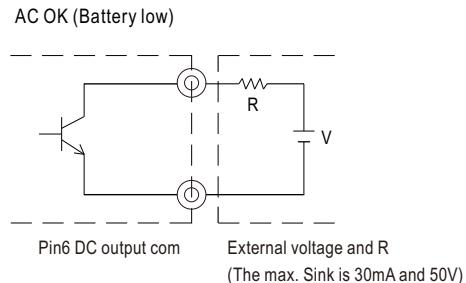
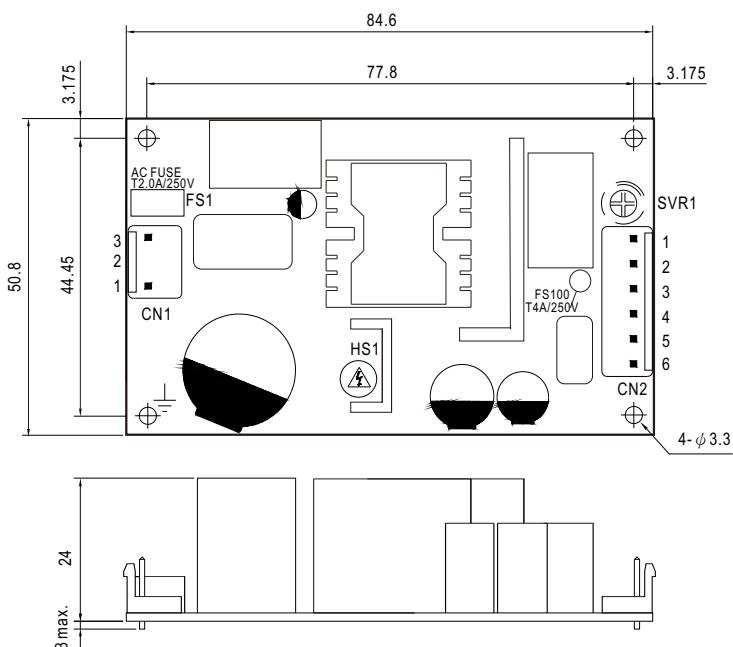


Fig 2.2 Internal circuit of AC OK (Battery Low)

Unit:mm

Mechanical Specification



1. HS1,HS2 can not be shorted.
2. HS1 must have safety isolation distance with system case.
3. $\underline{\underline{}}$ Gronding required
4. -V and Bat- can not be shorted

AC Input Connector (CN1) : JST B3P-VH or equivalent

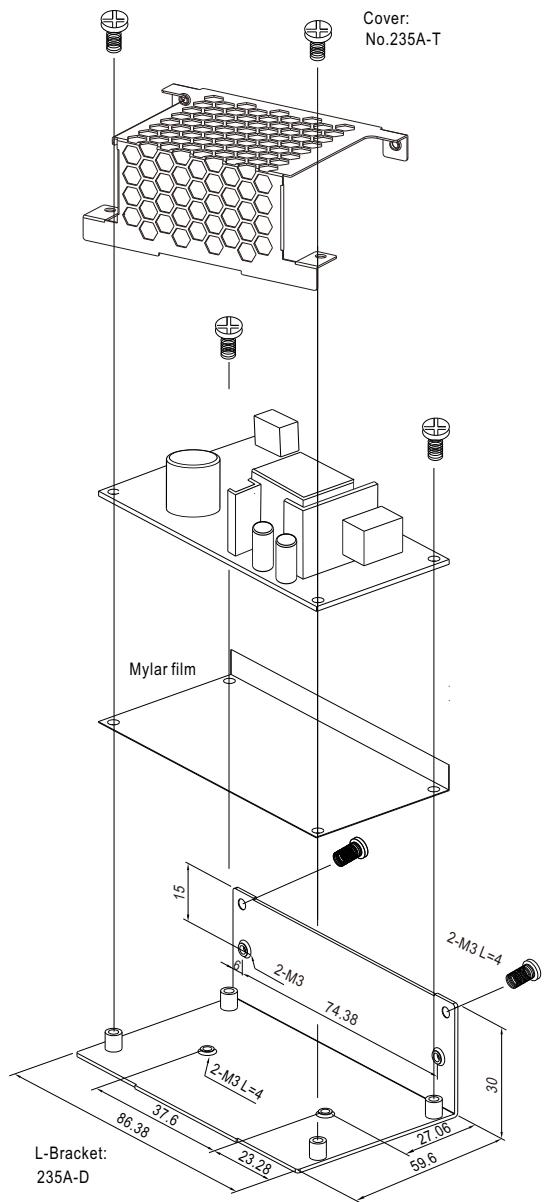
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N		
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/L		

DC Output Connector (CN2) : JST B6P-VH or equivalent

Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	Bat. Low	4	Battery +		
2	AC OK	5	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	Battery -	6	-V		

Installation Manual

Please refer to : <http://www.meanwell.com/webnet/search/InstallationSearch.html>



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