









Applications

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

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 $^{\circ}$ C through 70 $^{\circ}$ 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.





PSC-35A -C

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

SPECIFICATION

MODEL		PSC-35A		PSC-35B		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	
OUTPUT	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	1	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				
		105 ~ 150% rated output power				
	OVERLOAD	Protection type : Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION		CH1:14.49 ~ 19.5V	,,,,,	CH1:28.98 ~ 39.5V		
	OVER VOLTAGE	Protection type : Shut down O/F	Voltage, repower on to recover			
	BATTERY CUT OFF	10±0.5V		20±1V		
	ACOK	TTL open collector output, ON : AC OK ; OFF : AC Fail ; Ice : max. 30mA@ 50VDC				
FUNCTION		TTL open collector output, ON : Battery Low ; OFF : Battery OK ; Ice : max. 30mA@ 50VDC				
	BATTERY LOW	Battery low voltage : < 22V				
ENVIRONMENT	WORKING TEMP.	$-30 \sim +70^{\circ}$ 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 STANDARDS	UL62368-1, TUV BS EN/EN62368-1, EAC TP TC 004 approved				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC				
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH				
(Note 4)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, BS EN/EN61000-3-2,-3, EAC TP TC 020				
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN55024, light industry level, criteria A, EAC TP TC 020				
OTHERS	MTBF	658.4 K hrs min. MIL-HDBK-217F (25℃)				
	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				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. 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. Heat sink HS1,HS2 can not be shorted. Heat sink HS1,HS2 can not be shorted. Heat sink HS1 must have safety isolation distance with system case. 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) 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 					



35W Single Output with Battery Charger(UPS Function)

PSC-35 series





PSC-35 series

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



Mechanical Specification





Fig 2.2 Internal circuit of AC OK (Battery Low)

