





Features:

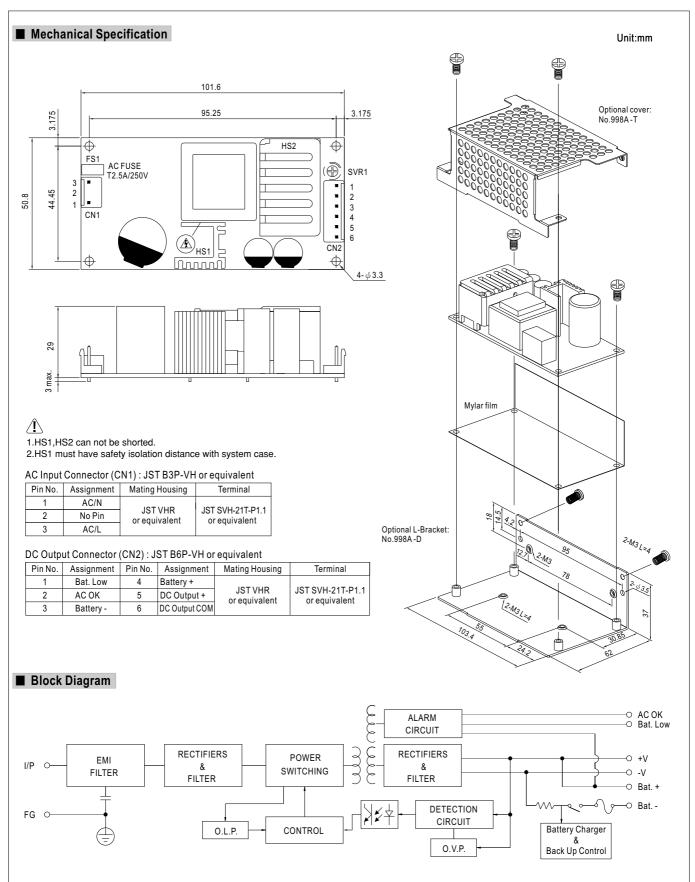
- Universal AC input / Full range
- Optional L-Bracket and cover (PSC-60x-C, x=A,B)
- Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery polarity protection by fuse
- Alarm signal for AC OK and Battery low
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty

SPECIFICATION

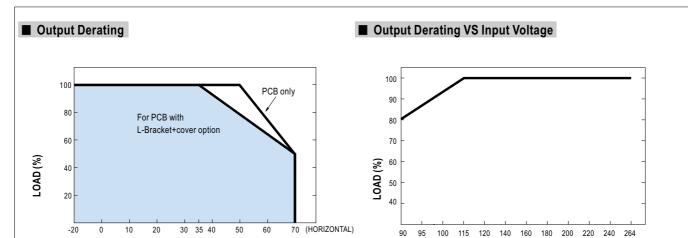


MODEL		PSC-60A		PSC-60B	PSC-60B	
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	
ОИТРИТ	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V	
	RATED CURRENT	2.8A	1.5A	1.4A	0.75A	
	CURRENT RANGE	0 ~ 4.3A		0 ~ 2.15A		
	RATED POWER	59.34W		59.34W	<u> </u>	
	RIPPLE & NOISE (max.) Note.2	120mVp-p		240mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 12 ~ 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.5	800ms, 50ms/230VAC 160	00ms, 50ms/115VAC at full lo	pad		
	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%				
	AC CURRENT (Typ.)	1.6A/115VAC 1A/230VAC				
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC				
	LEAKAGE CURRENT	<1mA/240VAC				
		105 ~ 150% rated output power				
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed				
PROTECTION	OVER VOLTAGE	CH1:14.49 ~ 18.63V				
		Protection type: Hiccup mode, recovers automatically after fault condition is removed				
	BATTERY CUT OFF	10.5±0.5V 21±1V				
	AC OK	TTL open collector output, ON : AC OK ; OFF : AC Fail ; Ice : max. 30mA@ 50VDC				
FUNCTION	7.0 OIL	TTL open collector output, ON: Battery Low; OFF: Battery OK; Ice: max. 30mA@ 50VDC				
	BATTERY LOW	Battery low voltage: < 11V Battery low voltage: < 22V				
ENVIRONMENT SAFETY & EMC (Note 4)	WORKING TEMP.	-20 ~ +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 STANDARDS	UL60950-1, TUV EN60950-1 approved				
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC 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					
	MTBF	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A 589.7K hrs min. MIL-HDBK-217F (25°C)				
OTHERS		PCB:101.6*50.8*29mm (L*W*H) ; with optional CASE:103.4*62*37mm (L*W*H)				
	DIMENSION PACKING	PCB: 01.0 50.0 2911111 (L W H), with optional CASE: 103.4 62 3711111 (L W H) PCB: 0.13Kg; 96pcs/13.5Kg/0.89CUFT; with optional CASE: 0.29Kg; 45pcs/14Kg/0.67CUFT				
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid EMC directives. For guidan (as available on http://www. Length of set up time is me Heat sink HS1,HS2 can no	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. 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 of component 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 of component power supplies." Be as available on http://www.meanwell.com) Length of set up time is measured at cold first 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 must have safety isolation distance with system case.				









■ Suggested Application

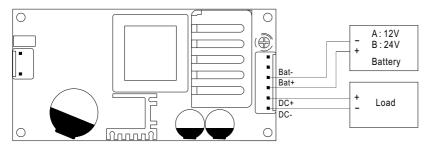
1. Back up connection for AC interruption

(1) Please refer to the Fig1.1 for suggested connection.

The power supply charge the battery and provide energy to the load in the same time when the AC main is OK.

The battery start to supply power to the load when the AC main fails.

AMBIENT TEMPERATURE (°C)



 $Fig \ 1.1 \ Suggested \ system \ connection$

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) Table 2.1 explain 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.)

Table 2.1 Explanation of Alarm Signal

AC OK (Battery low)

INPUT VOLTAGE (VAC) 60Hz

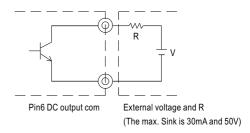


Fig 2.2 Internal circuit of AC OK (Battery Low)