





=Blank -C · Blank=PCB only -C=Enclosed type

■ Features :

- Universal AC input / Full range
- Models with L-Bracket and cover available (PSC-60x-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 reverse low
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty



SPECIFICATION

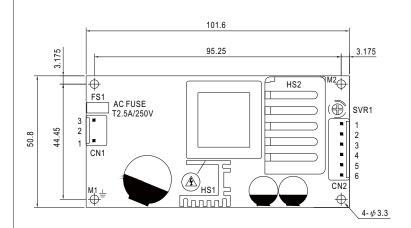
PSC-60A -C

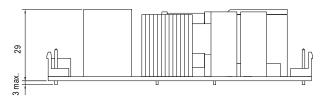
MODEL		PSC-60A		PSC-60B	PSC-60B		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2		
	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V		
	RATED CURRENT	2.8A	1.5A	1.4A	0.75A		
	CURRENT RANGE	0 ~ 4.3A		0 ~ 2.15A			
	RATED POWER	59.34W		59.34W			
	RIPPLE & NOISE (max.) Note.2	120mVp-p		240mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	CH1: 12 ~ 15V		CH1: 24 ~ 29V			
	VOLTAGE TOLERANCE Note.3			±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					
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	84%		84%			
NPUT	AC CURRENT (Typ.)	1.6A/115VAC 1A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 30A/115VAC 60A/230VAC					
	LEAKAGE CURRENT	<1mA/240VAC					
	ELYHOTOL GOTTLETT	105 ~ 150% rated output power					
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
ROTECTION		CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V					
KOILCIION	OVER VOLTAGE	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	BATTERY CUT OFF	10.5±0.5V 21±1V					
	AC OK						
UNCTION	AC OK	TTL open collector output, ON : AC OK ; OFF : AC Fail ; Ice : max. 30mA@ 50VDC					
ONOTION	BATTERY LOW	TTL open collector output, ON: Battery Low; OFF: Battery OK; Ice: max. 30mA@ 50VDC					
	WORKING TEMP	Battery low voltage: < 11V Battery low voltage: < 22V 20 - 170°C (Refer to "Descripe Curre")					
	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
NVIRONMENT	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					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
MC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
Note 7)	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					
<u> </u>	MTBF	589.7K hrs min. MIL-HDBK-217F (25°C)					
THERS	DIMENSION	PCB:101.6*50.8*29mm (L*W*H) ; Enclosed type:103.4*62*37mm (L*W*H)					
	PACKING	PCB:0.13Kg; 96pcs/13.5Kg/0.8	39CUFT; Enclosed type:0.29K	(g; 45pcs/14Kg/0.67CUFT			
ОТЕ	 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 0.1 uf & 47 uf 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 must have safety isolation distance with system case. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. 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) 						

Unit:mm



■ Mechanical Specification







- 1.HS1,HS2 can not be shorted.
- 2.HS1 must have safety isolation distance with system case.
- 3.M1 is safety ground. For better EMC performance, Please secure an electrical connection between M1,M2 and chassis grounding.

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

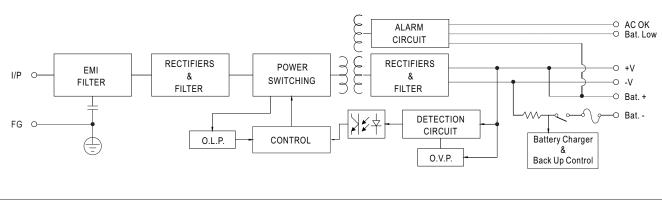
Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	ICTVIID	JST SVH-21T-P1.1 or equivalent
2	No Pin	JST VHR or equivalent	
3	AC/L	0. 040.1410111	

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

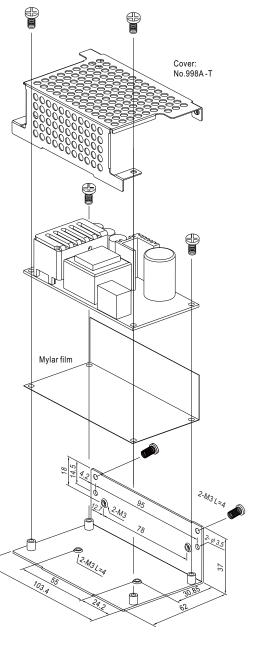
Pin No.	Assignment	Pin No.	Assignment	Mating Housing	Terminal
1	Bat. Low	4	Battery +	1071//10	107.01/11.017.01
2	AC OK	5	DC Output +	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	Battery -	6	DC Output COM		or equivalent

 $[\]pm$: Grounding Required

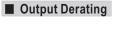
■ Block Diagram



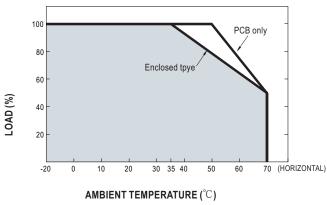
L-Bracket: No.998A-D

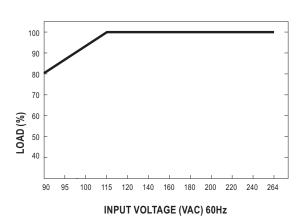






■ Output Derating VS Input Voltage





■ 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.

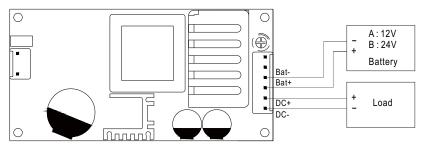


Fig 1.1 Suggested system connection

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) Table 2.1 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.)	

Table 2.1 Explanation of Alarm Signal

AC OK (Battery low)

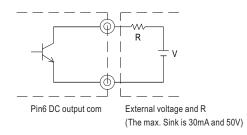


Fig 2.2 Internal circuit of AC OK (Battery Low)