



Features :

- Universal AC input / Full range
- 5"x3" compact size
- Optional L-Bracket and cover (PSC-100x-C, x=A,B)
- · Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery polarity protection by fuse
- Relay contact signal output for AC OK and Battery Low
- Cooling by free air convection
- 100% full load burn-in test
- 2 years warranty



SPECIFICATION

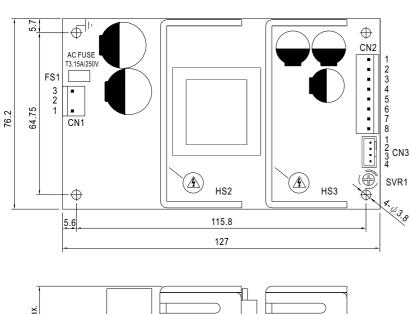
MODEL		PSC-100A		PSC-100B	PSC-100B		
		CH1 CH2		CH1 CH2			
	DC VOLTAGE	13.8V	13.8V	27.6V	27.6V		
	RATED CURRENT	4.75A	2.5A	2.4A	1.25A		
	CURRENT RANGE	0~7A		0~3.5A			
	RATED POWER	100.05W		100.74W			
	RIPPLE & NOISE (max.) Note.2						
OUTPUT	VOLTAGE ADJ. RANGE			CH1: 24 ~ 29V			
	VOLTAGE TOLERANCE Note.3			±1.0%			
	LINE REGULATION	±0.5%		±0.5%			
	LOAD REGULATION	±0.5%		+0.5%			
			400ms, 30ms/115VAC at full load				
	HOLD UP TIME (Typ.)						
	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	86%		88%			
INPUT	AC CURRENT (Typ.)	2A/115VAC 1.2A/230VAC		/*			
	INRUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC 70A/230VAC					
	LEAKAGE CURRENT	<1mA/240VAC					
		105 ~ 150% rated output power					
	OVERLOAD	· · ·		t condition is removed			
PROTECTION		Protection type : Hiccup mode, recovers automatically after fault condition is removed CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V					
	OVER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover					
	BATTERY CUT OFF	10±0.5V	0, 1	20±1V			
ALARM	AC OK Note.6	Relay contact output, ON : AC OK ; OFF : AC Fail ; Max. rating : 30V / 1A					
		Relay contact output, OFF : Battery OK ; ON : Battery Low ; Max. rating : 30V / 1A					
FUNCTION	BATTERY LOW	Battery low voltage : < 11V Battery low voltage : < 22V					
	WORKING TEMP.	-20 ~ +70 $^\circ$ C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
ENVIRONMENT	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:1.5KVAC 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 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					
	MTBF	417.6K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	PCB:127*76.2*31mm (L*W*H) ; with optional CASE:130*85*37mm (L*W*H)					
	PACKING	PCB:0.23Kg; 63pcs/15.5Kg/1.35CUFT; with optional CASE:0.44Kg;32pcs/15Kg/0.64CUFT					
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 Please refer to suggest app 	neters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. the : includes set up tolerance, line regulation and load regulation. there supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets ectives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." able on http://www.meanwell.com) 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. efer to suggest application (2) \ (4) in page 3. k HS2,HS3 can not be shorted.					
	8. Heat sink HS2,HS3 must h	ave safety isolation distance fro	m system case. MeanWell Direct		File Name:PSC-100-SPEC 2011-08-1		

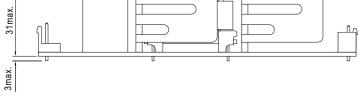
Tel: +44 (0)118 970 3858 E-mail: sales@meanwelldirect.co.uk



100W Single Output with Battery Charger(UPS Function) **PSC-100** series

Mechanical Specification



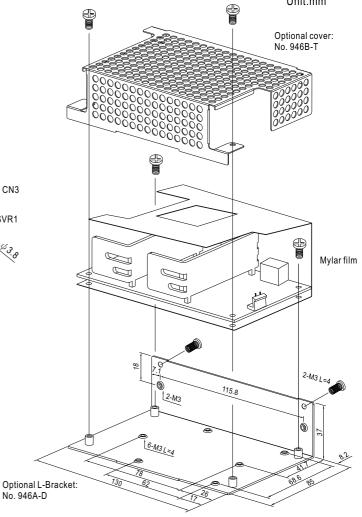


AC Input Connector (CN1) : JST B3P-VH or equivalent

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	or oquitatoint	or oquivaloni

DC Output Connector (CN2) : JST B8P-VH or equivalent

		· /	
Pin No.	Assignment	Mating Housing	Terminal
1,2	-V		
3,4	+V	JST VHR	JST SVH-21T-P1.1
5,6	Bat+	orequivalent	or equivalent
7,8	Bat-		



Unit:mm

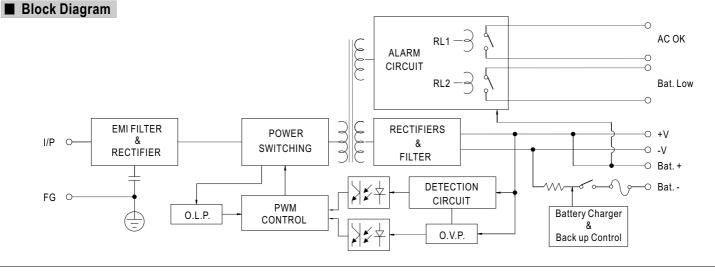
Alarm Output Connector(CN3) : JST B4B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1 2 0 0	AC OK	JST XHP	JST SXH-001T-P0.6
3 4 0 0	Bat. Low	or equivalent	or equivalent

⚠

1.HS2,HS3 can not be shorted.

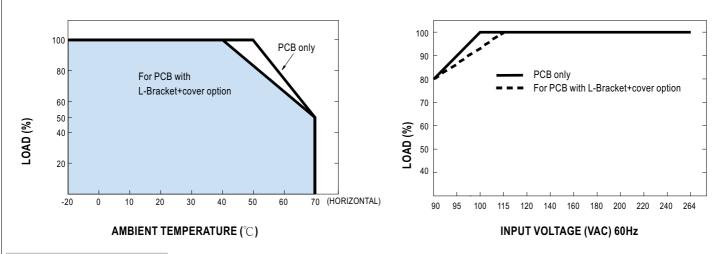
2.HS2,HS3 must have safety isolation distance from system case. 3.-V and Bat- can not be shorted.





Output Derating

Output Derating VS Input Voltage



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.

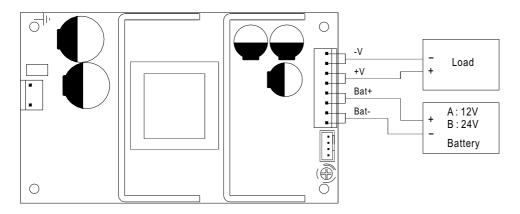


Fig 1.1 Suggested system connection

2. Alarm signal for AC OK and Battery Low

(1) Alarm signal is sent out through " AC OK " & " Battery Low " pins.(relay contact type)

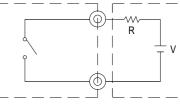
(2) An external voltage source is required for this function. The maximum applied voltage is 30V and the maximum sink current is 1A.

 $(3) \ Table 2.1 \ explain \ the \ alarm \ function \ built-in \ the \ power \ supply$

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

(4) RL1 (AC OK) signal will go into hiccup mode when the overload protection is activating.

AC OK (Battery low) CN3 Pin1(Pin3)



CN3 Pin2(Pin4)

External voltage source (V) and resistor (R) (The max. Sink is 1A and 30V)

Fig 2.2 Internal circuit of AC OK (Battery Low)