

Features :

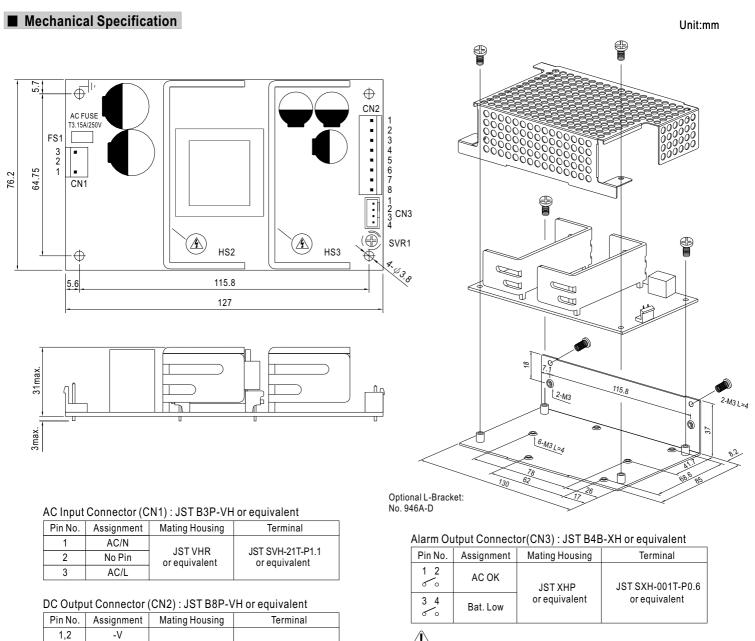
- Universal AC input / Full range
- 5"x3" compact size
- Optional L-Bracket
- Protections: Short circuit / Overload / Over voltage
- Battery low protection / Battery polarity protection by fuse
- Relay contact signal output for AC OK and Battery Low
- Cooling by free air convection
- 100% full load burn-in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



SPECIFICATION

MODEL		CP111842		CP101602		
	OUTPUT NUMBER	CH1	CH2	CH1	CH2	
OUTPUT	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	100W		100.74W		
	RIPPLE & NOISE (max.) Note.2			100mVp-p		
	VOLTAGE ADJ. RANGE	CH1: 12 ~ 15V		CH1: 24 ~ 29V		
	VOLTAGE TOLERANCE Note.3			±1.0%		
		±0.5%		±0.5%		
	LOAD REGULATION	±0.5%		±0.5%		
			100ms, 30ms/115VAC at full lo			
	HOLD UP TIME (Typ.)	40ms/230VAC 16ms/115VAC at full load				
INPUT	VOLTAGE RANGE	90 ~ 264VAC 127 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	86%		88%		
	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				
PROTECTION	OVERLOAD	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	voltage, re power on to recov	20±1V		
	AC OK Note.6					
ALARM	No on note.o	Relay contact output, OFF : Battery OK ; ON : Battery Low ; Max. rating : 30V / 1A				
FUNCTION	BATTERY LOW	Battery low voltage : < 11V Battery low voltage : < 22V				
ENVIRONMENT	WORKING TEMP.	$-20 \sim +70^{\circ}$ C (Refer to output load derating curve)				
		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 & EMC (Note 4)	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				
	EMI CONDUCTION & RADIATION					
	HARMONIC CURRENT	Compliance to EN61000-3-2,-3				
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, 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	 All parameters NOT special 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 Heat sink HS2,HS3 can noi 	ally mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. to tolerance, line regulation and load regulation. dered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets nce on how to perform these EMC tests, please refer to "EMI testing of component power supplies." <i>u</i> -meanwell.com) easured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. plication (2) \ (4) in page 3.				

100W Single Output with Battery Charger(UPS Function)

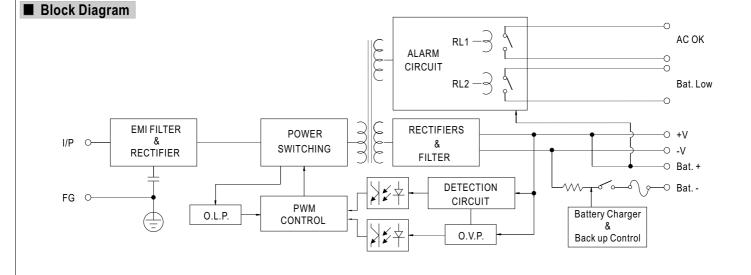


3,4 +V JST SVH-21T-P1.1 JST VHR 5,6 Bat+ or equivalent or equivalent 7,8 Bat-

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 Ta=25°(100 100 PCB only 90 80 PCB only For PCB with 80 For PCB with L-Bracket+cover option L-Bracket+cover option 60 70 50 LOAD (%) 60 LOAD (%) 40 50 20 40 70 (HORIZONTAL) -20 20 0 10 30 40 50 60 90 95 100 115 120 140 160 180 200 220 240 264 AMBIENT TEMPERATURE (°C) **INPUT VOLTAGE (VAC) 60Hz**

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.

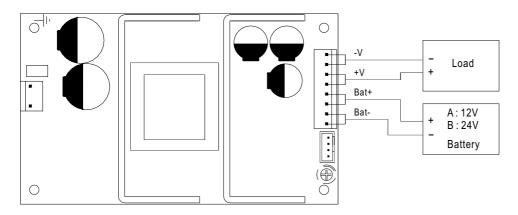


Fig 1.1 Suggested system connection

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.

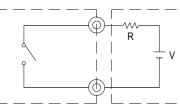
(3) Table2.1 explain the alarm function built-in the power supply

Function	Description	Output of Alarm	
AC OK	The signal is "Low" when the power supply turns on	Low or short	
AUOK	The signal turns to be "High" when the power supply turns OFF	High or open(External applied voltage 1A 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 1A 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)

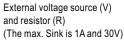


Fig 2.2 Internal circuit of AC OK (Battery Low)