

SPECIFICATION



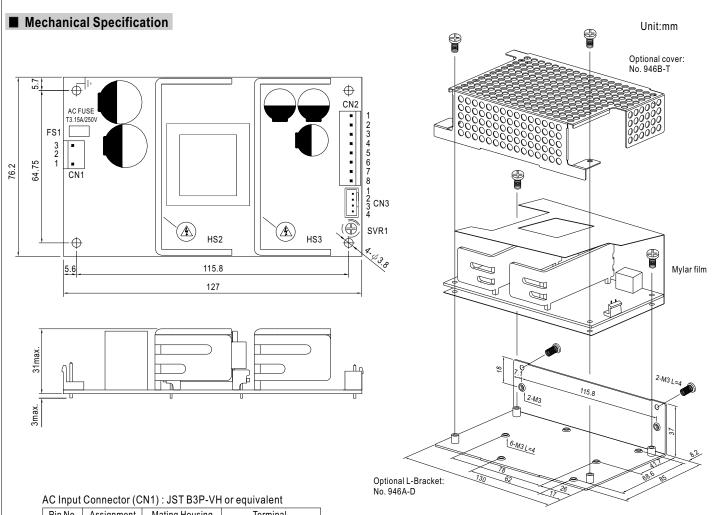
Features:

- 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



UTPUT NUMBER C VOLTAGE ATED CURRENT URRENT RANGE ATED POWER IPPLE & NOISE (max.) Note.2 OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.3 NE REGULATION DAD REGULATION ETUP, RISE TIME Note.5 OLD UP TIME (Typ.)	CH1: 12 ~ 15V ±1.0%	CH2 13.8V 2.5A	CH1 27.6V 2.4A 0 ~ 3.5A 100.74W 100mVp-p	CH2 27.6V 1.25A
ATED CURRENT URRENT RANGE ATED POWER IPPLE & NOISE (max.) Note.2 OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.3 NE REGULATION DAD REGULATION ETUP, RISE TIME Note.5	4.75A 0 ~ 7A 100W 100mVp-p CH1: 12 ~ 15V ±1.0%	2.5A	2.4A 0 ~ 3.5A 100.74W	1.25A
URRENT RANGE ATED POWER IPPLE & NOISE (max.) Note.2 OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.3 NE REGULATION DAD REGULATION ETUP, RISE TIME Note.5	0~7A 100W 100mVp-p CH1: 12~15V ±1.0%		0 ~ 3.5A 100.74W	
ATED POWER IPPLE & NOISE (max.) Note.2 OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.3 INE REGULATION DAD REGULATION ETUP, RISE TIME Note.5	100W 100mVp-p CH1: 12 ~ 15V ±1.0%		100.74W	
PPLE & NOISE (max.) Note.2 OLTAGE ADJ. RANGE OLTAGE TOLERANCE Note.3 NE REGULATION DAD REGULATION ETUP, RISE TIME Note.5	100mVp-p CH1: 12 ~ 15V ±1.0%			
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OLTAGE TOLERANCE Note.3 NE REGULATION DAD REGULATION ETUP, RISE TIME Note.5	±1.0%			
NE REGULATION DAD REGULATION ETUP, RISE TIME Note.5			CH1: 24 ~ 29V	
OAD REGULATION ETUP, RISE TIME Note.5	±0 E9/		±1.0%	
ETUP, RISE TIME Note.5	±0.5%		±0.5%	
· · · · · · · · · · · · · · · · · · ·	±0.5%		±0.5%	
OLD UP TIME (Typ.)	2400ms, 30ms/230VAC 2400ms, 30ms/115VAC at full load			
,	40ms/230VAC 16ms/115VAC at full load			
OLTAGE RANGE	90 ~ 264VAC			
REQUENCY RANGE	47 ~ 63Hz			
FFICIENCY (Typ.)	86%		88%	
C CURRENT (Typ.)	2A/115VAC 1.2A/230VAC			
RUSH CURRENT (Typ.)	COLD START 35A/115VAC 70A/230VAC <1mA / 240VAC			
EAKAGE CURRENT				
	105 ~ 150% rated output power			
OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed			
	CH1:14.49 ~ 18.63V CH1:28.98 ~ 37.26V			
VER VOLTAGE	Protection type : Shut down o/p voltage, re-power on to recover			
ATTERY CUT OFF	10±0.5V 20±1V			
	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			
ATTERY LOW	Battery low voltage : < 11V Battery low voltage : < 22V			
ORKING TEMP.	-20 ~ +70°C (Refer to output load derating curve)			
ORKING HUMIDITY	20 ~ 90% RH non-condensing			
TORAGE TEMP., HUMIDITY	·			
EMP. COEFFICIENT				
BRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes			
AFETY STANDARDS	UL60950-1, TUV EN60950-1 approved			
THSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC			
OLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH			
MI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B			
ARMONIC CURRENT				
MS IMMUNITY	Compliance to EN61000-3-2,-3 Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A			
TBF	417.6K hrs min. MIL-HDBK-217F (25°C)			
IMENSION			ım (I *W*H)	
ACKING				
 Ripple & noise are measure Tolerance : includes set up The power supply is considered 	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. p 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 noe on how to perform these EMC tests, please refer to "EMI testing of component power supplies." v.meanwell.com) easured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time. pplication (2) \((4) \) in page 3.			
. All . Rip B. To I. Th	parameters NOT special pole & noise are measure lerance: includes set up the power supply is considered. Mc directives. For guidan as available on http://www.ngth of set up time is mease refer to suggest app	prameters NOT specially mentioned are measured at 2 ople & noise are measured at 20MHz of bandwidth by us lerance: includes set up tolerance, line regulation and lo e power supply is considered a component which will be MC directives. For guidance on how to perform these EM is available on http://www.meanwell.com) ngth of set up time is measured at cold first start. Turning passe refer to suggest application (2) \(\) (4) in page 3.	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25 ople & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire term lerance: includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into a final equipment. (In the considered and the considered as a component which will be installed into a final equipment. (In the considered and the considered as a validable on http://www.meanwell.com) The power supply is considered as component which will be installed into a final equipment. (In the considered in the considered as a validable on http://www.meanwell.com) The power supply management is measured at cold first start. Turning ON/OFF the power supply management in the power supply management in the power supply management.	parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. pole & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parall lerance: includes set up tolerance, line regulation and load regulation. e power supply is considered a component which will be installed into a final equipment. The final equipment must be refunctives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies available on http://www.meanwell.com) ngth of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up





Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	ICTVIID	ICT CV/II OAT DA A
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/L	5. 54a.vaione	5. 54aivaiont

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

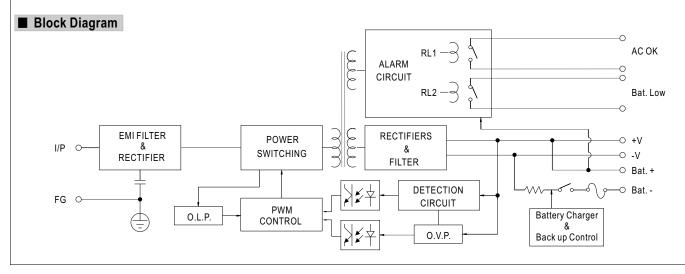
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Pin No.	Assignment	Mating Housing	Terminal
1,2	-V		
3,4	+V	JST VHR	JST SVH-21T-P1.1
5,6	Bat+	or equivalent	or equivalent
7,8	Bat-		

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

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



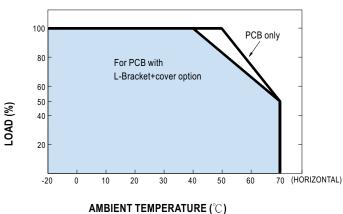
- 1.HS2,HS3 can not be shorted.
- 2.HS2,HS3 must have safety isolation distance from system case.
- 3.-V and Bat- can not be shorted.

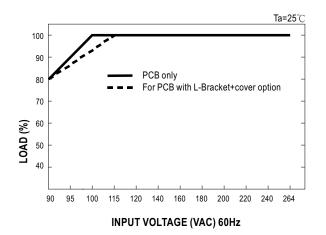


100W Single Output with Battery Charger (UPS Function) PSC-100 series

■ 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.

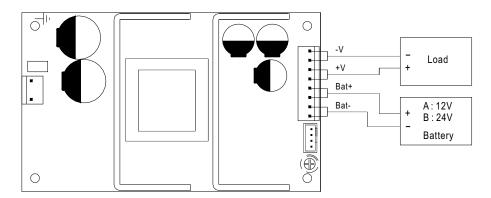


Fig 1.1 Suggested system connection

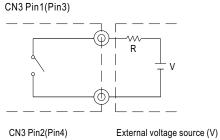
2. Alarm signal for AC OK and Battery Low

- (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 Low	The signal is "Low" when the voltage of battery is under A:11V, B:22V	Low or short
	The signal is "High" when the voltage of battery is above A:11V, B:22V	High or open(External applied voltage 30V max.)

Table 2.1 Explanation of Alarm Signal

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



AC OK (Battery low)

and resistor (R)

(The max. Sink is 1A and 30V)

Fig 2.2 Internal circuit of AC OK (Battery Low)