

- Universal AC Input
- 5"x 3" Compact Size
- Battery Low & Reverse Polarity Protection
- Short Circuit, Over Voltage, Over Load Protected
- Convection Cooled To Full Power
- Relay Contact Output for AC OK and Battery Low Alarms
- Full Approvals: UL/EN/CE
- Optional Covers & Connector Kits



Specification

Input Voltage.....	90~264 VAC, 47~63 Hz (127-370 VDC)
Inrush Current.....	35 A @ 115 VAC, 70 A @ 230 VAC
Output Voltage.....	See table below, Main O/P to Load + Float Charger O/P
Load Regulation.....	+/-0.5%
Line Regulation.....	+/-0.5%
Over Voltage Protection.....	PSC-100A O/P 1 : 14.49~18.63V, PSC-100B O/P 1 : 28.98~37.26V
Overload Protection.....	105~150% hiccup mode, auto recovery.
Battery Cut Off.....	PSC-100A 10 Volts (+/-0.5V), PSC-100B 20 Volts (+/-0.5V)
AC OK Alarm.....	Relay Contact, ON = AC OK, OFF = AC Fail (max 30V/1A)
Battery Low Alarm.....	Relay Contact, ON = Battery OK, OFF = Battery Low Battery Low alarm levels, PSC-100A <11 V, PSC-100B <22 V
Hold Up Time.....	40 ms, min @ full load 230 VAC
Input to Output Isolation.....	I/P-O/P: 3 kVAC,
Operating Temperature	-20 to +70 °C, see derating curve
Storage Temperature.....	-20 to +85 °C
Safety Standards.....	UL60950-1 TUV EN60950-1, CE
EMC.....	EN55022 class B, EN55024, EN61000-3-2,3, ENV50204 EN61000-4-2,3,4,5,6,8,11, light industrial level criteria A
MTBF.....	417.6K Hours, MIL-HDKB-217F @ 25°C
Mechanical	127 x 76.2 x 31 mm, Chassis Mount Open Frame
Connections Input & Output.....	JST Plug In Connections

Models and Ratings (Output 1 to Load, Output 2 Battery Float Charger).

Model	Output 1	Output 2	Battery Voltage
PSC-100A	13.8 Volts / 7 Amps	13.8 Volts / 2.5 Amps	12 Volts
PSC-100B	27.6 Volts / 3.5 Amps	27.6 Volts / 1.25 Amps	24 Volts

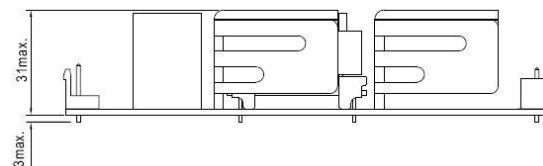
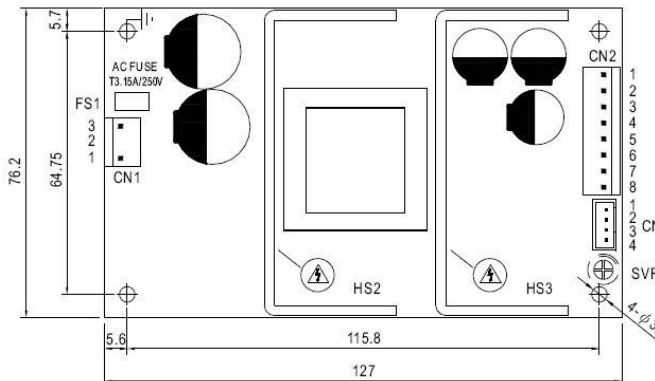
Notes :

- 1) The above units can supply a maximum of 100 Watts total power, therefore if battery charge current drawn is lower than maximum then more power can be taken from output 1 to the load, up to 100% of total rating.
- 2) Units include auto switchover circuit to power load from battery in the event of AC mains failure.
- 3) Units include alarm signal relays for AC OK and Battery Low

Please see next page for mechanical drawings.

**ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,
Rochester, Kent, ME2 4HU, Tel : 01634 725527, Fax : 01634 739111
Email : sales@allpsu.co.uk, Web : www.allpsu.co.uk**

Mechanical Drawings.



1. HS2 to HS3 Can not be shorted
2. HS2 & HS3 must have safety isolation distance with system case
3. -V and Bat- connections must not be shorted

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

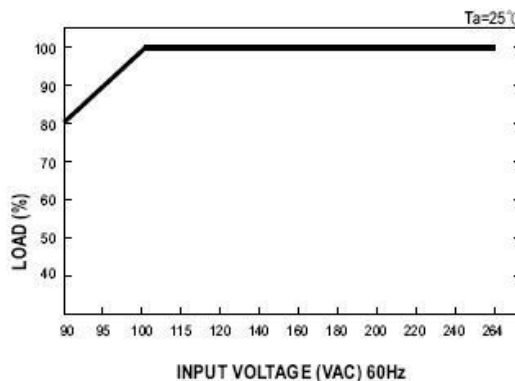
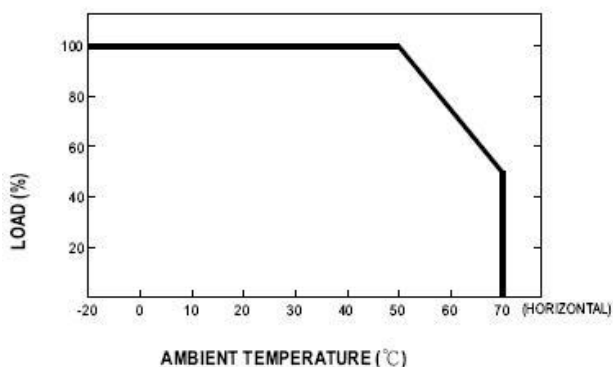
PIN No	Assignment	Mating Housing	Terminal
1	AC Neutral	JST VHR or Equivalent	JST SVH-21T-P1.1 or Equivalent
2	No Pin		
3	AC Live		

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

PIN No	Assignment	Mating Housing	Terminal
1,2	- V Output to load	JST VHR or Equivalent	JST SVH-21T-P1.1 or Equivalent
3,4	+ V Output to load		
5,6	Battery +		
7,8	Battery -		

Alarm Signals	Description
AC OK	The signal is Low when AC present and turns High when AC Fails
Battery Low	The signal is Low when Battery Voltage is under 11 Volts / 22 Volts and turns High when Battery Voltage above these levels.

Derating, (Input AC Supply & Temperature)



Specifications may change without notice. E&OE. ALL PSU Terms & Conditions apply.