

APOLLO

Model No. **AUP-300** Uninterrupted Switching Power Supply

Technical Information

1. APOLLO USPS Characteristic

Item	APOLLO USPS AUP-300
Capacity	300W
Input Frequency	60/50Hz
Input Power Factor	0.7
Surge Protection	Yes
Output AC Voltage	115 or 230VAC
Output DC Current	+ 12 V / 12 A
	+ 5 V / 30 A
	- 5V / 0.4 A
	-12 V / 0.4A
Weight	5KGs (with standard BP5C battery Pack)
Dimension	USPS Main body : AT Power Supply Case 150 x 140 x 86mm USPS BP5C Battery Pack : 5.25" Disk Size
Battery type	Lead Acid (Maintenance free) 24V/2.3Ah
Designed	MOSFET IC with copyright Hybride IC design
Inrush Current	50A for 110VAC, Full load
Over Voltage protection	Yes
Over Power Protection	Yes >125%

UPS Mode / Function Specification

Capacity	500VA
AC Output Voltage (To monitor)	115VAC / 230VAC and 55 +/- 2Hz

AC Output Waveform	Step Sine Wave
AC Input Voltage Transfer Point (Undervolt)	From Normal to backup : 85V / 170 VAC From backup to normal : 95V / 190VAC
AC Input Voltage Transfer Point (Overvolt)	Protection by FUSE
Transfer time	0 ms for DC output(computer) 10ms for AC output (monitor)
System backup time (For a PC + 15" monitor)	10 minutes (For standard battery Pack) For longer backup time can use other battery pack
Recharge time	8 hours
Battery Voltage monitoring	LED display, Buzzer

SAFTY : UL, c-UL(CSA), CE APPROVED.

2. Input Characteristics:

Input Voltage Range : 90VAC to 130VAC or 180VAC to 260VAC , single phase.
Input Frequency Range : 47 Hz to 63 Hz.
Max. Input AC current : 6.3A Max. @ 115VAC or 3.5A Max. @230VAC, Full load.
Inrush Current : At 130/264 VAC, Full load condition, no damage occur, input fuse shall not blow.
Efficiency : 70% Min. at nominal line input fill load.

3. Output Characteristics:

Static Output Characteristics:

DC	Line & Frequency Regulation	Load Regulation	Ripple & Noise mV P-P (Max.)
+12V	+/-3%	+/-10%	120/240
+5V	+/-5%	+/-5%	100/200
-12V	+/-3%	+/-10%	120/240
-5V	+/-5%	+/-10%	120/240

Note: 1. Noise Test : Noise Bandwidth is from DC to 10Mhz
2. Add 0.1uF/10uF capacitor at output connector terminals for ripple & noise measurements.

Dynamic Output Characteristics:

Rise time : 100ms Max. at nominal line full load.
Hold up time : 16ms Min. for +12V output at nominal line full load.
Transient Overshoot : 10% Max. of steady state after load change of 25% within the range of 50% to 100% of full load.
Temperature coefficient : 0.03% per°C /Max.

Min. Load

DC Output	+12V	+5V
Current	0.5A	3.0A

Over Voltage Protection (O.V.P.)

When the major output voltage +5V is over +6.5V, The USPS will auto shutdown.

Over-Load Protection (O.L.P.)

For over-load, **SPS** load over 125% will auto-shutdown.

Short Circuit Protection

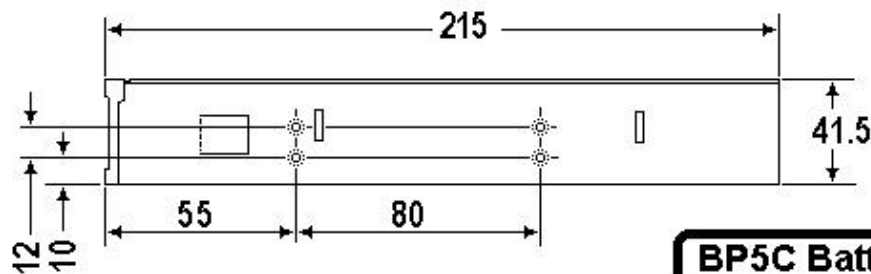
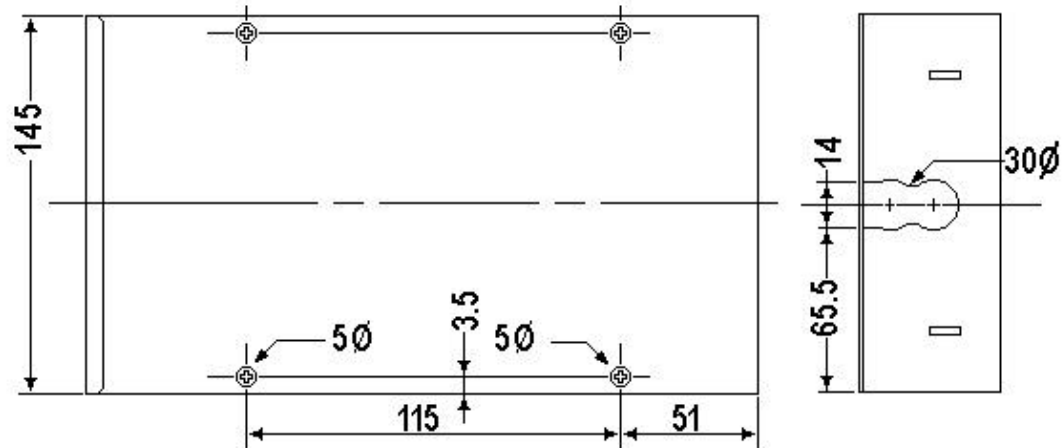
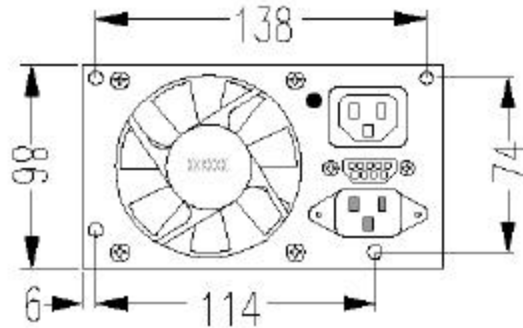
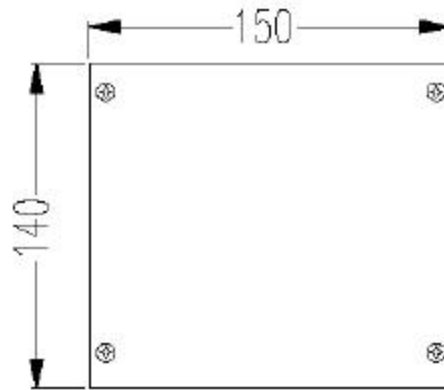
USPS can protect all DC outputs on the switching power supply if short circuit is happened.

4. Environment

Operating Temperature : 0°C to 50°C, linear departing to 50% load at 70°C.
Operating Relative Humidity : 20% to 90%.
Storage Temperature : -20°C to +60°C.
Storage Relative Humidity : 5% to 95%
Altitude : Operate properly at any altitude between 0 to 10,000 feet.
Storage Altitude : 40,000 feet.
Vibration : 0.38 m/m, 5-55-5 Hz, 7 minutes per cycle; 30 minutes for each axis(X,Y,Z)
Burn-In : 45°C max. Load 24 hours.
M.T.B.F. : 50,000 hr.

5. Dimension

**APOLLO USPS
MAIN BODY
for
AUP-X SERIES
AUP-A SERIES**

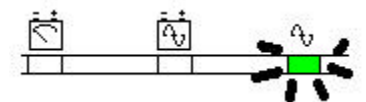
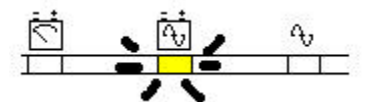
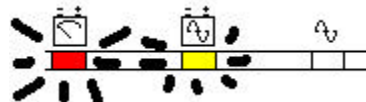
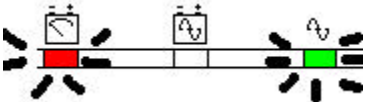


BP5C Battery Pack

CABLE	COLOR	PIN ASSIGEMENT	REMARK
D	BLACK	PS ON (SHORT)	
	WHITE		
A	YELLOW	+5V STAND BY	100 mA
	BLACK	GND	
B	RED	+12VDC	2 WIRES
	BLACK	GND	2 WIRES
C	ORANGE	+24VDC	2 WIRES
	BLACK	GND	2 WIRES

BP5C Battery Pack Panel

UPS Working Indications

Utility States	LED Indicator state	Buzzer state
Normal		
Blackout, UPS On (24~21.5V)		Beep.. Beep.. Beep .. (3 seconds Interval)
Battery Low (21.5~18.5V)		Beep... .. (sounds quickly and short)
AC Normal / Battery Fail		

Remark :

All of information are only for reference, the correct information will be confirm again with customer.