



ISO 9001
REGISTERED



UNINTERRUPTED SWITCHING POWER SUPPLY

1. GLOBTEK USPS Characteristic

Item	GLOBTEK USPS GAUPX-300-P4	
Capacity	300W	
Input Voltage	115	
Input Frequency	60Hz	
Input Power Factor	0.65	
Surge Protection	Yes	
Output AC Voltage	115 VAC	
Output DC Current	+ 12 V / 11 A	Total output power is 150W.
	+ 5 V / 25 A	
	+3.3 V / 14A	
	-12 V / 0.4A	
	-5 V / 0.4A	
	+5V Stand By / 0.75A	
Weight	5 KGs (with BP5C-2425 Battery Pack)	
Dimension	USPS Main body:	
	AT Power Supply Case	
	150 x 145 x 86 mm	
	BP5C-2425 – 5.25" Disk Size Battery Pack:	
	210 x 145 x 42 mm	
Battery type	Lead Acid (Maintenance free) 24V/2.5Ah	
Designed	MOSFET IC with copyright Hybrid IC design	
Inrush Current	50A for 110VAC, 25A for 230VAC Full load	
Over Voltage protection	Yes	
Over Power Protection	Yes >125%	





ISO 9001
REGISTERED

UNINTERRUPTED SWITCHING POWER SUPPLY

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 : 80V / 85V / 170 VAC From backup to normal : 90V / 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	10 minutes for longer backup time can use other battery pack
Recharge time	10~15 hours
Battery Voltage monitoring	LED display, Buzzer

SAFETY: UL, CUL (CSA), CE APPROVED.

2. Input Characteristics:

Input Voltage Range: 80~120, 90~130 or 180~260 VAC, single phase.

Input Frequency Range: 47 to 63 Hz.

Max. Input AC current: 6.5A Max. @ 115 (100) VAC or 3.5A Max. @ 230VAC, Full load.

Inrush Current: At 120/130/264 VAC, Full load condition, no damage occur,
input fuse shall not blow.

Efficiency: 65% Min. at nominal line input full 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
+3.3V	+/-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.

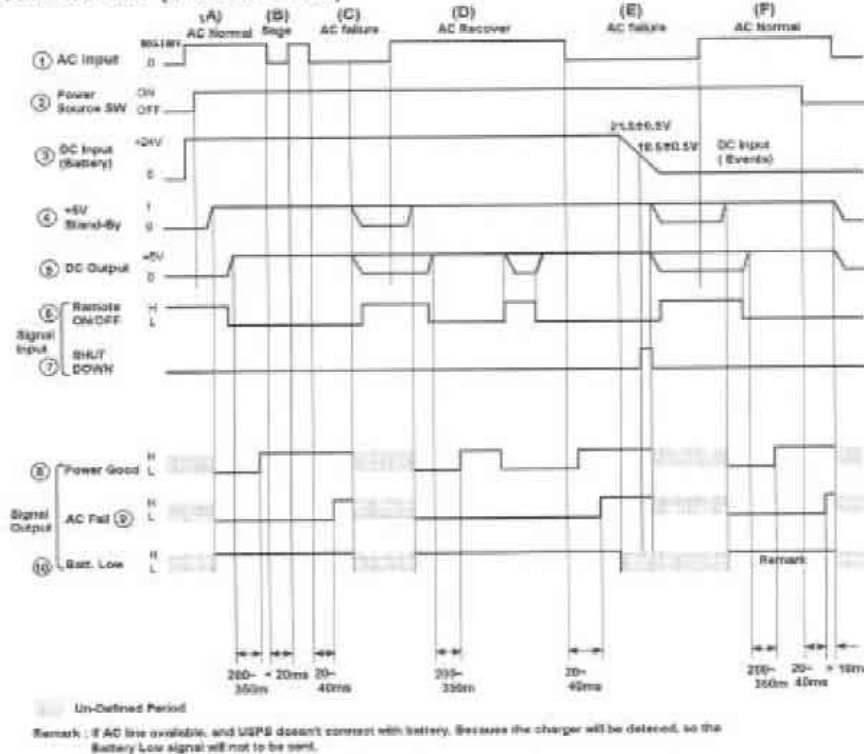


ISO 9001
REGISTERED



UNINTERRUPTED SWITCHING POWER SUPPLY

• TIME CHART (GAUPX Series)



- (A) ② Turn On Computer Power System, the conditions of each point are as below:
- ① AC Line Normal
 - ③ Battery / DC support normal
 - ④ 5VSB output normal
 - ⑥ Remote On/Off stay in HI condition, it's also in standby mode.
- When active Remote On, ⑤ DC O/P will up and ⑧ PG delay for 200~350ms then it also up, then the computer go into normal operation.
- (B) If the AC Line has any changing, but timing shorter than 20ms. Then, it won't effect to DC outputs and all signals are as normal.
- (C) If the AC line brown out than 20ms, then all points will be affected. (For Red line shows without UPS backup) ⑤ ⑥ ⑧ UPS monitoring signal will send AC Fail, Hi to PC system through RS-232 port, meanwhile all of DC outputs are backup by Battery Pack to keep stabile outputs for PC system without any interrupted.
- (D) If the AC recover, then all signals will be recover to normal, too.
- (E) and (F) are repeat above procedures.





ISO 9001
REGISTERED



UNINTERRUPTED SWITCHING POWER SUPPLY



signal "Battery Low" to PC system.

If ③ DC INPUT voltages drop to $18.5 \pm 0.5V$, then ⑩ will send a signal

⑦ "Shut Down" to PC system

Dynamic Output Characteristics:

Rise time: 100ms Max. at nominal line full load.

Hold up time: 16ms Min. for +5V 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	+3.3V	+5Vsb
Current	0.5A	3A	1A	0.1A

Over Voltage Protection (O.V.P.)

When the major output voltage +5V, +3.3V are over +6.5V, +4.2V, the **USPS** will auto shutdown.

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

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

Short Circuit Protection

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

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.



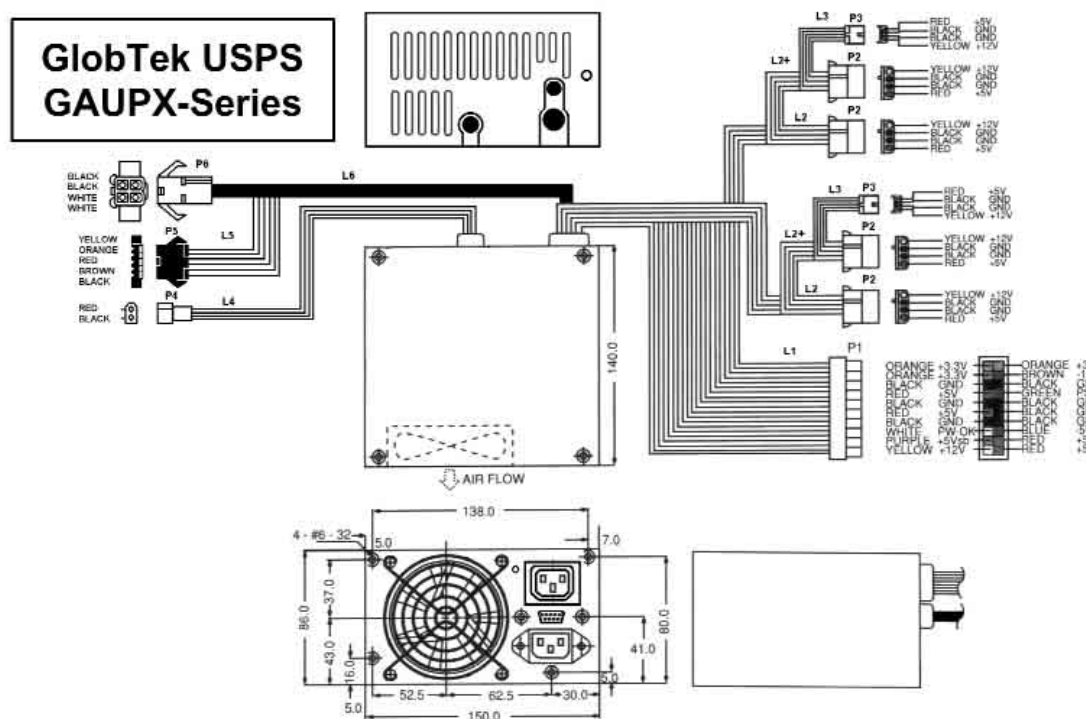
ISO 9001
REGISTERED



UNINTERRUPTED SWITCHING POWER SUPPLY

5. Dimension

GAUPX-300 USPS Main Body



CABLE PIN ASSIGNMENT

CABEL	COLOR	Assignment
(P4)	BLACK	GND
	RED	+24VDC
(P5)	RAINBOW	LED
(P6)	WHITE	DC ON/OFF
	WHITE	
	BLACK	AC ON/OFF
	BLACK	





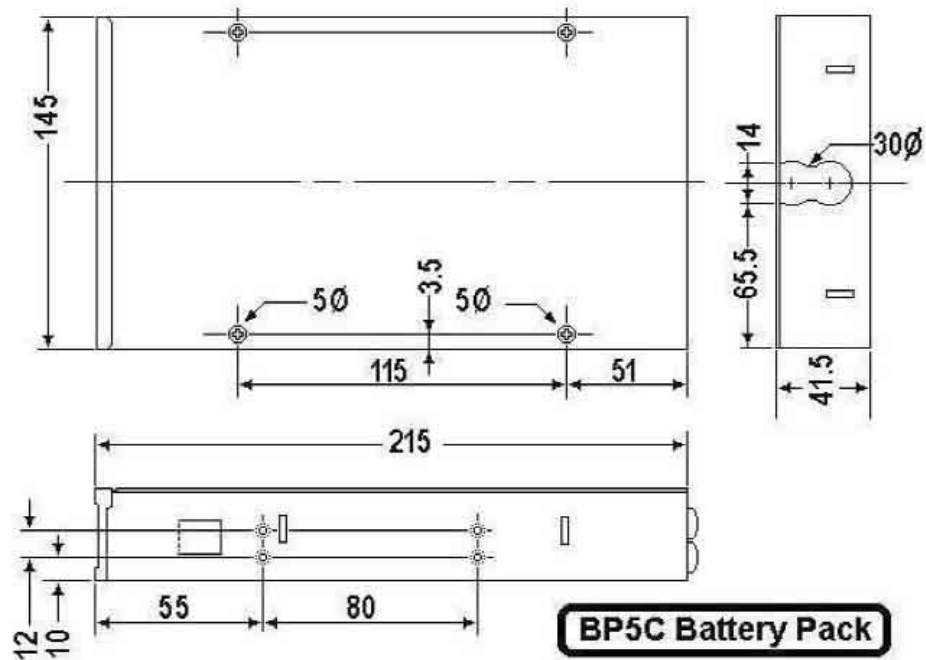
ISO 9001
REGISTERED



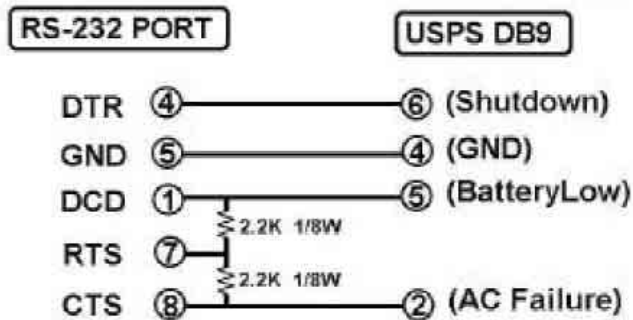
UNINTERRUPTED SWITCHING POWER SUPPLY



BP5C-2425 BATTERY PACK



RUPS Backup Utility Hardware Configuration



GlobTek USPS, for Windows NT 4.0 UPS module cable connection diagram. The Windows NT UPS module configuration as "A", "B", "C"



ISO 9001
REGISTERED



UNINTERRUPTED SWITCHING POWER SUPPLY

(1) Pin Assignment of Pin ② ⑤ ⑥

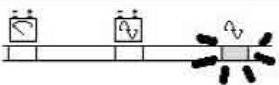
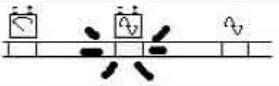
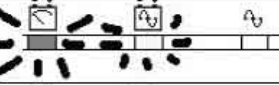
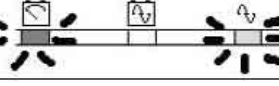
Pin	Normal	Active
②	High (1.7~1.8V)	Low (0V)
⑤	High (1.7~1.8V)	Low (0V)
⑥	Low (0V)	+12V input

Pin ② : Normal High (1.7V~1.8V) , the LED PF (**Green**) is ON. If AC failure, it will change to LOW (0V) and LED PF will OFF.

Pin ⑤ : Normal High (1.7V~1.8V) , the LED BL (**Red**) is ON. If Battery low (21.5VDC), it will change to LOW (0V) and LED BL will OFF.

Pin ⑥ : Normal Low (0V) , the LED SD (**Yellow**) is ON. If AC failure and UPS is working, if it get a High Voltage (+12VDC) signal then the UPS can be shutdown.

UPS Working Indications

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

Remark :

All of information is for reference only . The correct information will be confirmed again with customer.

