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UNINTERRUPTED SWITCHING POWER SUPPLY

1. GLOBTEK USPS Characteristic

Item	GLOBTEK USPS GAUPX-300	
Capacity	300W	
Input Voltage	100, 115, 230 or 115/230VAC	
Input Frequency	60/50Hz	
Input Power Factor	0.65	
Surge Protection	Yes	
Output AC Voltage	100, 115 or 230VAC	
Output DC Current	+ 12 V / 11 A	
	+ 5 V / 25 A	Total output power is 150W.
	+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%	



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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, c-UL(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.

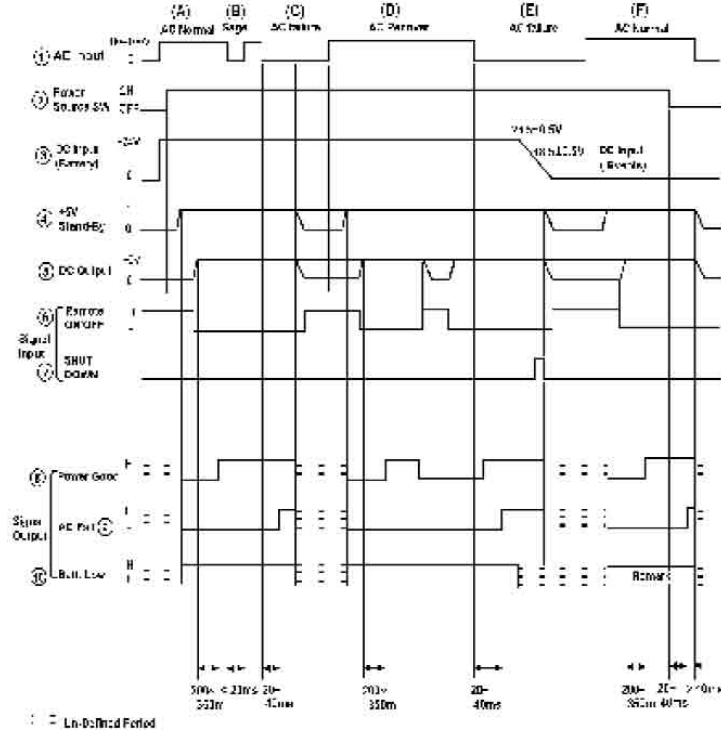


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● **TIME CHART-GAUP-X Series**



Remarks: IAC file available, and USPS doesn't connect with library. Because the change in the demand, on the Battery Low signal will not be to be sent.

- (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.



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If ③ DC INPUT (Battery Pack) voltage drop to $21.5 \pm 0.5V$, then ⑩ will send a 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.



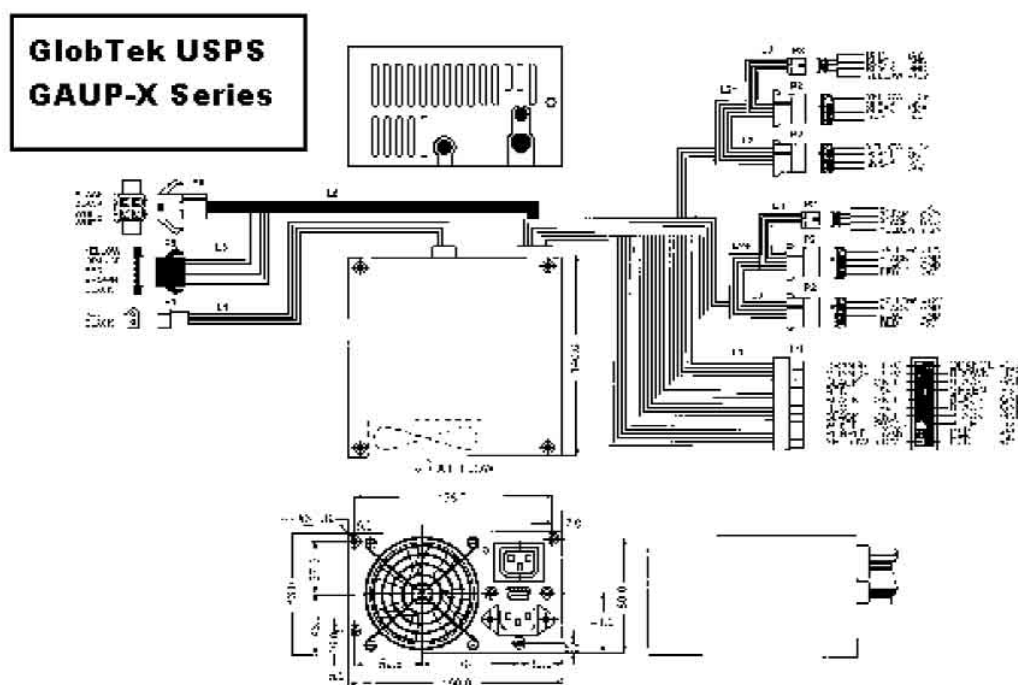
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5. Dimension

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	





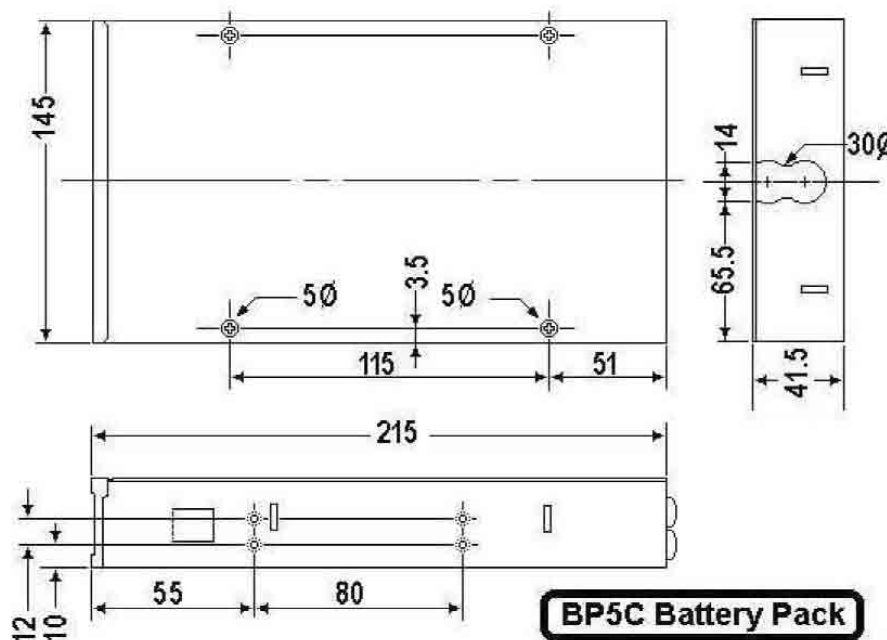
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Switching Power Supplies

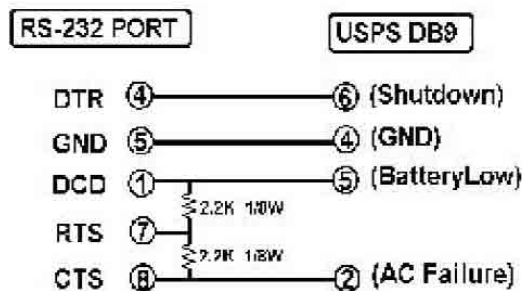
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BP5C-2425 BATTERY PACK



RUPS Backup Utility Hardware Configuration



GlobTek USPS, for Windows NT 4.0 UPS module cable connection diagram. The Windows NT UPS module configuration as "0", "0", "0", "0"



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(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.

