

Features :

- Universal AC input / Full range
- Auto switch when power off (UPS function)
- Built-in constant current limiting circuit
- Alarm signal for AC OK and Battery low (TTL open collector output or Relay contact output)
- Protections: Short circuit / Over load / Over voltage **Brown-out (Low AC Input Voltage) Battery low protection Battery polarity protection** (by Resettable Fuses)
- Cooling by free air convection
- High efficiency, long life and high reliability
- Withstand 2G vibration test
- All using 105°c long life electrolytic capacitors
- 3 years warranty









	QP-75-GB		QP-75-L		QP-75-LB						
	Output Number	CH1	CH2	CH1	CH2	CH3	CH1	CH2	CH1	CH2	CH3
	DC Voltage Range	13.8V	13.8V	13.8V	13.8V	5V	27.6V	27.6V	27.6V	27.6V	5V
	Rated Current	3.7A	1.8A	2.6A	1.8A	3A	1.75A	1A	1.2A	1A	3A
	Max. Output Current Note.8	5.5A	2.07A	4.4A	2.07A	3A	2.75A	1.15A	2.2A	1.15A	3A
	Rated Power	75.9W 75.72W			75.9W 75.72W						
Output	Ripple & Noise (max.) Note.2	2 100mV 150mV 100mV 150mV 100mV 100mV 150mV 100mV				100mV	150mV	100m			
	Voltage Adj. Range	Ch1:±10%)				Ch1:±10%	6			
	Voltage Tolerance Note.3			±2%		±3%	±2%		±2%		±3%
	Line Regulation Note.4	±0.5%		±0.5%		±0.5%	±0.5%		±0.5%		±0.5%
	Load Regulation Note.5	±0.5%		±0.5%		±1.5%	±0.5%		±0.5%		±1.5%
	Setup, Rise Time	800ms, 3	0ms/230VA	C 800m	ıs, 30ms/11	5VAC at fu	lload				
	Hold up Time (Typ.)			8ms /115V	AC at full lo	ad					
	Voltage Range	90 ~ 264	/AC 12	27 ~ 373VE	C (Withs	tand 300V	AC surge	for 5sec.	Without c	lamage)	
	Frequency Range	47Hz ~ 6								<i>,</i>	
	Efficiency (Typ.) at 230Vac	86%		85%			88%		87%		
Input	AC Current (Typ.)	1.5A/115	VAC 1	I.0A / 230\	/AC						
	Inrush Current (Typ.)										
Inrush Current (Typ.) Cold Start 35A / 115VAC 70A / 230VAC Leakage Current For earth < 1mA / 264VAC											
			0% rated ou		r CH1 / CH	3 (GB / LB c	nlv)				
	Over Load		0% rated or			0 (02 / 22 0	···· y /				
	Over Load		n type :Hicc	<u> </u>		utomaticall	v after fault	condition is	s remove		
Protection				•		atomatican	y artor rauri	Contantion	310111010		
	Over Voltage CH1: 115% ~ 150% rated output voltage Protection type : latch-off mode										
	Battery cut off	10V±5%	ii type . iato	ii-oii iiiode	;		20V±5%				
					act output						
Function	AC OK BAT Low		w voltage <		act output			ow voltage		actoutput	
	Working Temp.		70°C (Refe		lood do roi	ing ourse)	Dattery it	ow voitage	~ZZVI3/0		
	Working Humidity		RH non-coi		loau ue-rai	ing curve)					
	•										
invironment	Storage Temp., Humidity		°C, 10~90								
	Temp. Coefficient		C (0 ~ 50°C	•		00 :		· ¬			
	Vibration		Hz, 2G 10mi		-		n along X, Y	r,∠ axes			
	Safety Standards		0950-1 / TL		- ''						
	Withstand Voltage		3KVAC I/		okvac o/	P-FG: 0.5k	VAC				
afety & EMC	Isolation Resistance		100M Ω / 50								
-	EMI Conduction & Radiation		: 2006+A1:								
	Harmonic Current	EN61000-3-2:2006 Class A, EN61000-3-3:2008									
	EMS Immunity	S Immunity EN61000-4-2,3,4,5,6,8,11; ENV50204; EN55024									
	MTBF Dimension (L*W*H)(mm) 123x95x31mm										
Others											
	Packing	21PCS									
Note	All parameters NOT specially mention Ripple & noise are measured at 20Mh Tolerance: includes set up tolerance, Line regulation is measured from low Load regulation is measured from 10% The power supply is considered a cormeets EMC directives. T.Lendth of set up time is measured at a	Iz of band line regulatine to hig 6 to 100% nponent w	width by usi ation and loa h line at rate rated load. hich will be	ng a 12" tv ad regulati ed load. installed in	visted pair- on. nto a final e	wire termin quipment. ⁻	ated with a The final eq	0.1uf & 47 t	uf parallel o	onfirmed tha	

8. The total power output can not exceed the rated power, max. output current is each channel.

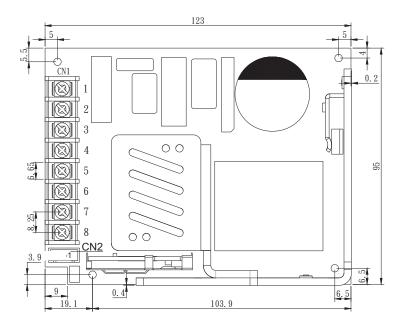
10.Do not connect the GND port with B- port in your application to prevent any damage of the product.

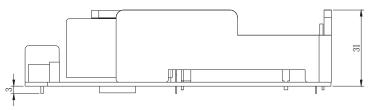
9.CH2:Battery discharge current can not exceed 50% of the rated power.



Mechanical Specification

Unit:mm





Terminal Pin No. Assignment(CN1)

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	5	DC output V+
2	AC/N	6	BAT+
3	FG≟	7	BAT-
4	DC Output com	8	DC/DC Output +5V (GB/LB only)

QP-75-G/L

Alarm output Connector(CN2): JST B3B-XH or equivalent

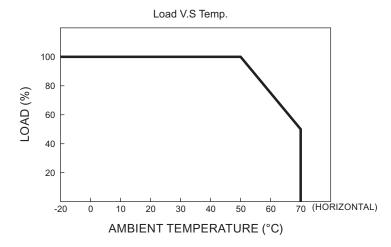
Pin No.	Assignment	Mating Housing	Terminal
1	AC OK		
2	BAT LOW	JST XHP-3	JST SXH-001 T-P0.6
3	G (13.8V/20mA) L (27.6V/20mA)	or equivalent	or equivalent

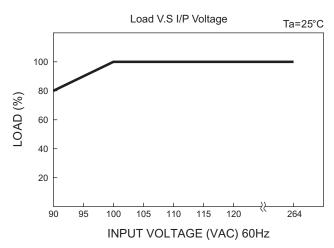
QP-75-GB/LB

Alarm output Connector(CN2): JST B4B-XH or equivalent

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

■ De-rating Curve

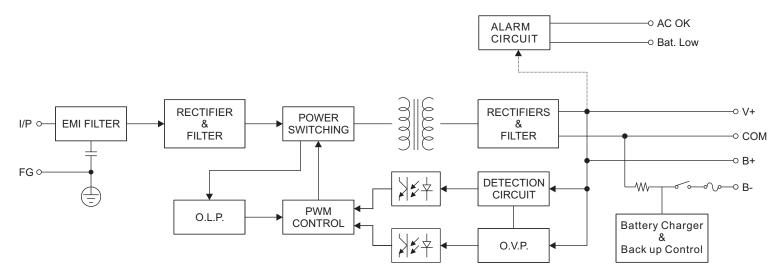






■ For QP-75-G/L

■ Block Diagram

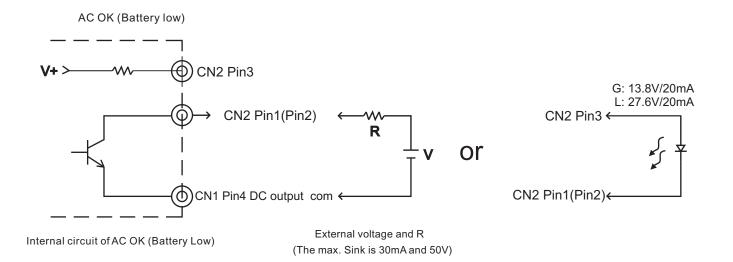


■ Alarm Signal for AC OK and Battery Low

- (1) Alarm Signal is sent out through "AC OK " & " Battery Low " pins.
- (2) An external voltage source is required for this function. The maximum applied voltage is 50V and the maximum sink current is 30mA.
- (3) Table 3.1 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 (0.3V max. at 30mA)		
ACOR	The signal turns to be "High" when the power supply turns OFF	High or open(External applied voltage 30mA max.)		
Battery	The signal is "Low" when the voltage of battery is under G:12V , L:22V	Low (0.3V max. at 30mA)		
Low	The signal is "High" when the voltage of battery is above G:12V , L:22V	High or open(External applied voltage 30mA max.)		

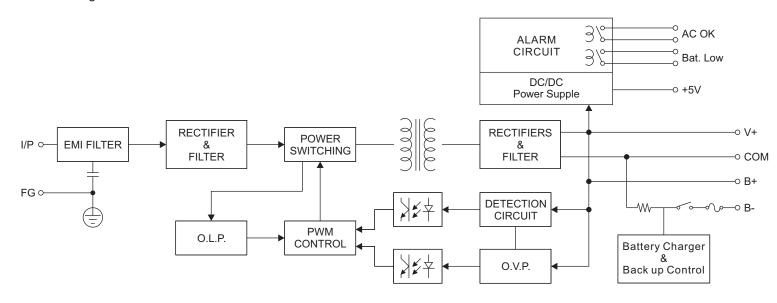
Table 3.1 Explanation of Alarm Signal





■ For QP-75-GB/LB

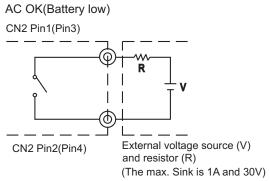
■ Block Diagram



- 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 4.1 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	
ACOR	The signal turns to be "High" when the power supply turns OFF	High or open(External applied voltage 1A max.)	
Battery	The signal is "Low" when the voltage of battery is under GB:12V, LB:22V	Low or short	
Low	The signal is "High" when the voltage of battery is above GB:12V , LB:22V	High or open(External applied voltage 1A max.)	

Table 4.1 Explanation of Alarm Signal



Internal circuit of AC OK (Battery Low)