

55W Battery Charging Power Supply

HF55W-SB Series



SPECIFICATIONS

Input Voltage	85~264VAC (120~370VDC)
Input Current	1.8A
Input Frequency	47~63Hz
Inrush Current	cold start, 20A/115V, 40A/230V
Input Leakage Current	< 1mA/230VAC
Line Regulation (full load)	± 0.5%
Voltage Adjust Range	V1: ± 5%, V2: not adjustable
Output Overload	105~150%, hiccup mode, auto
Protection	recovery
Output Over Voltage	115~150%, hiccup mode, auto
Protection	recovery
Short Circuit Protection	hiccup mode, auto recovery
Rise Time	50ms @full load (typical)
Hold up Time	20ms @full load (typical)
Mechanical Feature	metal enclosed, IP20
Battery Reverse	red LED on when battery +/-
Connection Indication	pole reverse connected
Dimensions	160 x 98 x 39mm
	$(L \times W \times H)$

FEATURES

- Universal AC input / full range
- To charge lead acid battery by floating charge
- Auto switch when power off (UPS function)
- AC mains failure signal
- Battery low signal
- Battery +/- pole reverse connection protection
- Approvals: CE
- · Protections: overload/ over voltage/ short circuit
- 5 years limited warranty
- F605 160 x 98 x 39mm

Operating Temperature	-20°C ~+70°C(ref. derating curve)
Storage Temperature	-20°C ~+85°C
Operating Humidity	20%~93%RH(non condensing)
Storage Humidity	20%~95%RH(non condensing)
MTBF	>100,000 hours
Cooling	convection
Safety Standards	GB4943, UL60950, EN60950
EMC Standards	GB9254, EN55022 Class B
	EN55024, EN61000-3-2,3
	EN61000-4-2,3,4,5,6,8,11
Withstand Voltage	I/P -O/P: 3.0KVAC/1min
-	I/P - PE: 1.5KVAC/1min
	O/P-PE: 0.5KVAC/1min
Vibration	10~150Hz, 2G 10min/1cycle,
	30min each along X, Y, Z axes
Connection	8P/8.25mm pitch terminal block
Signal Output CN1	2P/2.50mm, 2501WV-2P wafer
(refer to drawing)	2501-T terminal, 2501H-2P housing
	Manufacturer: Taiwan CKM
Packing	0.46kgs, 30pcs/16kgs/0.031CBM
	per carton

Model No.	DC Output	Voltage Adjust Range	Voltage Tolerance	Charging Current	Battery Low Voltage Protection	Ripple & Noise (max.)	Efficiency
HF55W-SB-13.8	13.8V 4A	± 5%	±1%	0.23A	9.6V ± 0.5V	120mVp-p	77%
	13.4V 0.23A (charger)	not adjustable	±3%				
HF55W-SB-27.6	27.6V 2A	± 5%	±1%				
	26.5V 0.16A (charger)	not adjustable	±3%	0.16A	19.6V ± 0.5V	150mVp-p	78%

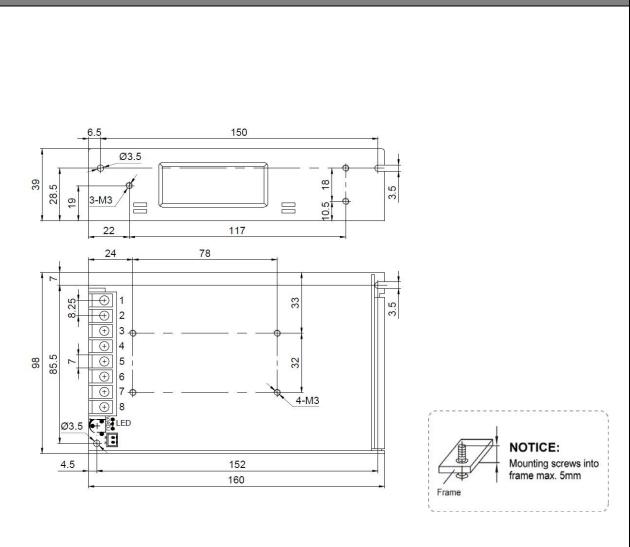
NOTE

- 1. All parameters are measured at 230VAC input, rated load and 25°C ambient temperature.
- 2. Line regulation is measured from low line to high line at rated load.
- 3. Load regulation is measured from 0% to 100% of rated load for single output models. For multi-output models, it is measured from 20% to 100% of rated load, and other output at 60% rated load.
- 4. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor.
- 5. The power supply is regarded as a component which will be installed into the final equipment. The final equipment must be re-confirmed that it still meets EMC directives.



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Drawing



Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment		
1	AC/L	4,7	COMMON "-" of DC & BATTERY OUTPUT		
2	AC/N	5	DC OUTPUT +V		
3	PE	PE 6 BATTERY "+" POLE			
8 COMPULSIVE BATTERY DISCHARGE: LINK SK WITH TERMINAL 6 (BATTERY)					

CN1 No.	Assignment
1	Battery low signal (low level < 0.7V when battery works normally, high level > 3V when battery low. The battery will be switched off after it gives the battery low signal. When battery switched off, you have to re-power on AC mains, so the battery can recover.)
2	AC mains failure signal (low level < 0.7V when AC power on, high level > 3V when AC mains fails)



