

55W Battery Charging Power Supply

HF55W-SB Series


FEATURES

- Universal AC input / full range
- Electrolytic capacitors all 105°C
- 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

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 Protection | 105~150%, hiccup mode, auto recovery |
| Output Over Voltage Protection | 115~150%, hiccup mode, auto recovery |
| Short Circuit Protection | hiccup mode, auto recovery |
| Rise Time | 50ms @full load (typical) |
| Hold up Time | 20ms @full load (typical) |
| Mechanical Feature | enclosed |
| Battery Reverse Connection Indication | red LED on when battery +/- pole reverse connected |
| Dimensions | 160 x 98 x 39mm (L x W x H) |

| | |
|--------------------------------------|---|
| 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 (refer to drawing) | 2P/2.50mm, 2501WV-2P wafer 2501-T terminal, 2501H-2P housing Manufacturer: Taiwan CKM |
| Packing | 0.46kgs, 36pcs/18.5kgs/0.045CBM 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% | 0.16A | 19.6V ± 0.5V | 150mVp-p | 78% |
| | 26.5V 0.16A (charger) | not adjustable | ±3% | | | | |

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.

