



HE1U-XX12-BMS Series

Heavy Efficiency Low Profile 12V Power Supply



- *Integrated Smart Charger & Low Voltage Battery Disconnect*
- *Short Circuit / Overload / Over Voltage / Over Temperature Protection*
- *Manual Battery Disconnect Switch*
- *DC-OK TLL Signal*

Model	HE1U-2012-BMS	HE1U-5012-BMS	HE1U-12012-BMS
Output Voltage	13.8 VDC		
Output Amperage	20 Amps	50 Amps	100 Amps
Maximum Power	330 Watts	750 Watts	1500 Watts
Maximum Ripple and Noise	150 mV p-p	150 mV p-p	150 mV p-p
Voltage Tolerance	± 1.0 %	± 1.0 %	± 1.0 %
Line Regulation	± 0.3 %	± 0.5 %	± 0.5 %
Load Regulation	± 0.5 %	± 0.5 %	± 0.5 %
AC Voltage Input	115 or 230 VAC Switch Selectable, 47 – 63 Hz		
Typical Efficiency	88 %	89 %	89 %
Maximum AC Current	6.5A / 115VAC 3.3A / 230VAC	11.2A / 115VAC 5.4A / 230VAC	17A / 115VAC 9.5A / 230VAC
Max Inrush Current, single cycle	35A / 115VAC 70A / 230VAC	25A / 115VAC 40A / 230VAC	35A / 230VAC
Short Circuit Protection	Constant Current Limiting		
Overload Protection	105 – 135 %	105 – 125 %	105 – 115 %
Over Voltage Protection	18.8 – 21.8 V	17.0 – 20.5 V	15.75 – 18.75 V
Over Temperature Protection	Auto Output Shutdown > 195 F (90 C)		
Working Temperature Range	14 to 158 F (-10 C to 70 C)		
Storage Temperature Range	-4 to 185 F (-20 C to 85 C)		
Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG: 0.5KVAC	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG: 0.5KVAC	I/P-O/P: 3KVAC I/P-FG: 2KVAC O/P-FG: 1.5KVAC
Maximum Charge Voltage	13.8 VDC		
Maximum Recharge Rate	7.2 Amps		
Max Battery Charger Power	99 Watts		
Suggested Battery Capacity	30 – 80 Ah		
Auto-Revert Battery/Power Supply	By dual Schottky diodes in OR configuration		
Charger Protection	Overload / voltage / temperature / reverse polarity		
Dead Battery Protection	Short circuit protected with deep discharge start function		
LED Indicator	Red = high rate charge / Green = float charge		
Maximum Battery Output	75 Amps	75 Amps	100 Amps
Disconnect / Reconnect	10.0 / 12.5 VDC		
Product Dimensions	19 x 14 x 1.75 in, 19" Rack Mount 1U Height		
Shipping Dimensions	21 x 15 x 8 in		
Shipping Weight	12 lbs.		

*NOTE: Specifications are subject to change without notice.