6.6kW Lithium Battery Charger

72V | 84V | 96V | 144V | 312V | 540V

Key Features

Fully sealed potting process, water cooling (modular optional)	Work reliably under -35℃- +85℃
Built in thermal sensor	Cut off output under dangerous operations conditions (internal 95℃)
Protection level IP67	Work safely in the short-term immersion conditions

Essential Parameter

Input Voltage Range	Input Current	Output Voltage Range	Max Output Current	Power Factor	Full-load Efficiency
AC90~265V	32A	110V~400VDC	20A	≥0.99 (half-load more)	≥93%

Models

Hardware	Model
72V80A	HK-J-H99-40
84V80A	HK-J-H116-40
92V64A	HK-J-H132-32
144V46A	HK-J-H198-23
312V20A	HK-J-H440-10
540V12A	HK-J-H660-10

HK-J Series Charger was specially designed for supplying the electricity to recharge electric vehicle's 72V, 84V, 96V, 144V, 312V, and 540V battery systems. This charger is highly efficient, small in size, with high stability and a very long lifespan. The HK-J Series Charger is fully sealed with an IP67 protection grade, and high reliability and complete protection functions, etc. The HK-J Series Charger has built-in heat-sensing device and can automatically recover through it's thermal protection functions.

CAN communication Protection	Automatically stop the output when CAN communication fails
Power-off Protection	Yes

Safety and others

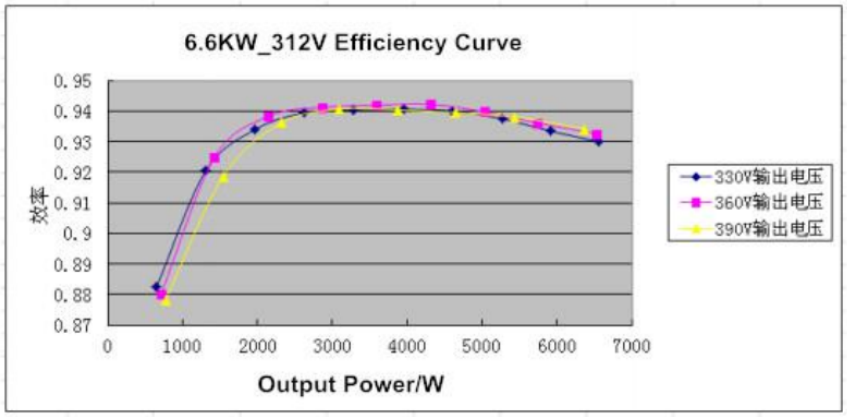
Withstand Voltage	Input to Output：2000VAC≤10mA Input to Ground：2000VAC≤12mA Output to Ground：2000VAC≤10mA，all 1min
Insulation Resistance	Input, output, signal terminal to casing≥10MΩ Testing Voltage 1000VDC
Electromagnetic Immunity	GB/T 18487.3-2001 11.3.1
Electromagnetic Abusive	GB/T 18487.3-2001 11.3.2
Harmonic Current	GB 17625.1-2003 6.7.1.1
Inrush Starting Current	≤48A
Current-rise Time	≤5S，Overshoot≤5%
Close Response time	100%到 10%≤50mS，100%到 0%≤200mS
Protection Level	IP67
Vibration Resistance	10－25Hz Amplitude1.2mm，25－500Hz 30m/s2，8hrs per direction
Noise	≤60dB(A 级)
MTBF	150000H
Work Environment	Relative Temp 5%-95% No condensation
Working Temperature	-35℃～+85℃
Storage Temperature	-55℃～+100℃

Features

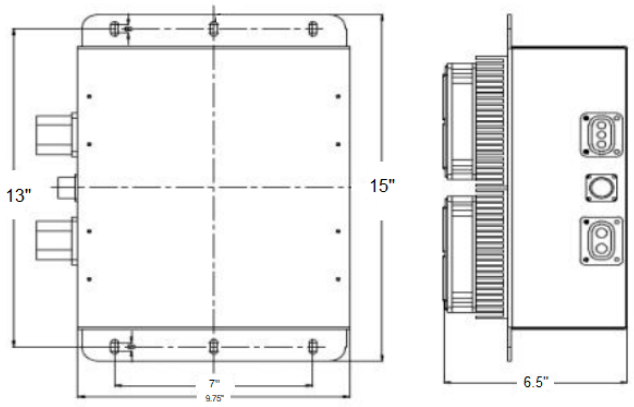
Low Voltage Output	Output Mode	Constant Voltage
	Output Voltage	12.5V OR 13.5V
	Rated Current	5A
	CV Accuracy	±2%
	Maximum Current	5.5A±0.5A
	Output Power	≥62.5W
	Ripple Voltage Coefficient	1%
Input	Frequency	45-65Hz
	Stand-by Consumption	≤5W
Main Output	Output Mode	CV / CC
	Output Power	6600W @ 220VAC / 3300W @ 110VAC
	CV Accuracy	±1%
	CC Accuracy	±2%
	Ripple Voltage Coefficient	5%
Communication Function	CAN Communication	Yes
	Baud Rate	125Kbps、250Kbps、500Kbps
	Terminal Resistance	N/A

Protection function

Input Over-voltage Protection	AC280±5V
Input Under-voltage Protection	AC85±5V
Output Over-voltage Protection	Stop the output when exceeds + 1% of the maximum output voltage
Output Under-voltage Protection	Stop the output when below -5% of the minimum output voltage
Output Over-current Protection	Stop the output when exceeds + 1% of the maximum output current
Over-temperature Protection	Power down from 90 ℃ and turn off at 95℃
Short-circuit Protection	Stop Output
Battery Reverse Connect Protection	Fuse Burn-out
Ground Protection	≤100mΩ



Dimensions



Appearance Requirements

1). Outer surface should be smooth without obvious defects such as scratch, deformation. Surface coating should be uniform.

2). The nameplates and signs should be installed firmly with the neat handwriting.

3). Spare parts should be fastened reliably without rust, burrs, cracks and other defects and damage.

4). Each product should be marked with product identification in obvious place, including part number, product brand, product type, production number, name of production enterprises, the warning message, etc

Packaging, Transport and Storage

1). Packaging

On the packing box, there are product name, product part number, product brand, product type, production number and name of manufacturer; In packing box, along with the technical documents, it includes packing list, quality certificate, product specification.

2). Transportation

Suitable for cars, boats, aircraft, transportation. The products have to be prevented against sunshine and moisture and in a civilized transportation.

3). Storage

Product should be stored in the packing box when it is not used and be maintained in a 5 ℃ to 40 ℃ clean, dry and well-ventilated environment. It should not be stored together with chemicals, acid and alkali substances etc,. Should avoid storing in the sun, fire, water and avoid storing with corrosive substances. The storage period is 2 years (from the inventory date of the factory). After the 2 years of storage period, the products should still comply with the provisions of the relevant standards.