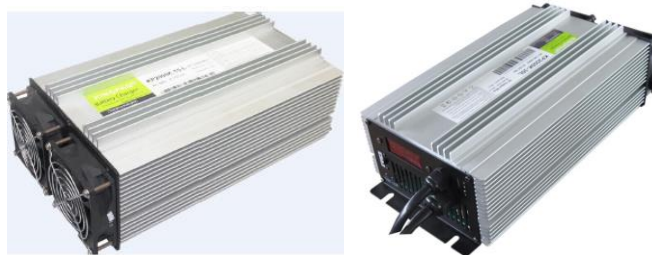


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Specification of Battery Charger

HT-259 **LITHIUM BATTERY CHARGER** **(Aluminum enclosure)**



General

The series HT-259, 330×175×90mm aluminum shell charger with reverse polarity protection function..

1. Main product specification

Model		HT-259
Max output voltage	Li-ion	21V ± 0.2
Output current		50A ± 5%
Battery Specifications		5S
Max. output power		1050W
Input voltage		<input type="checkbox"/> 90-132Vac <input checked="" type="checkbox"/> 180-260Vac <input type="checkbox"/> 380Vac

3.

Environmental condition

No.	Item	Technical specification	Remark
1	Humidity	5~95%	With package
2	Altitude	≤3000m	Work normally

4.

Electrical characteristics

4.1

Input characteristic

No.	Item	Technical specification	Remark
1	Rated input voltage	<input type="checkbox"/> 110Vac <input checked="" type="checkbox"/> 230Vac	
2	Input voltage range	<input type="checkbox"/> 90-132Vac <input checked="" type="checkbox"/> 180-260Vac <input type="checkbox"/> 380Vac	
3	AC input voltage frequency	50~60 Hz	

4.2

Output characteristic or charge stages

No.	item	Technical specification	Remark
1	Nominal voltage	<input checked="" type="checkbox"/> 18.5V	
2	(Vout) <input type="checkbox"/> Li-ion	21V	

	CC (constant current)	$\leq V_{out}$ 50A	
3	(constant voltage)	$V_{out}, 50A \downarrow$	
4	Transition Current	$V_{out}, 2.5A \rightarrow 0$	5% CC
5	Power efficiency	$\geq 86\%$	$V_{in}=220V_{ac}, \text{rated load}$

4.3

Protection characteristics

No.	Item	Technical specification	Remark
1	Software over voltage protection	The charger output voltage does not exceed set the maximum charging voltage of the battery.	
2	Thermal protection	Aluminum shell the inside temperature $> 65^{\circ}C$, Automatic Shutdown Transformer temperature $> 110^{\circ}C$, Automatic Shutdown	
3	Current limiting protection	The charger output current does not exceed a set battery charge current.	At CC mode
4	Short circuit protection	Short circuit protection should be automatically recovery after remove the condition.	
5	Reverse polarity protection	When output wires are reversely connected to the battery the charger will not operate and will work normally when DC wires are correctly connected.	

4.4

Charging indicator

No.	Item	Status	Remark
1	Power on	LED1: Red LED2: Green	
2	Charging	LED1: Red LED2: Red	
3	Fully charged	LED1: Red LED2: Green	
4	Charging Voltage Display	Yes	
5	Charging Current Display	Yes	

5.

Safety & EMC

No.	Item	Standard (or test condition)	Remark
4	Safety	<input checked="" type="checkbox"/> CE <input checked="" type="checkbox"/> RoHs <input type="checkbox"/> GS <input type="checkbox"/> UL <input type="checkbox"/> CCC <input type="checkbox"/> SAA <input type="checkbox"/> PSE <input type="checkbox"/> KC	
5	EMC	EN55014-1:2006/A2:2011 EN55014-2:1997/A2:2008 EN61000-3-2:2006/A2:2009 EN61000-3-3:2008	
6	LVD	EN60335-1:2012 EN60335-2-29:2010 EN62233:2008	

Remark: Discrimination A- Function OK under technical requirement range;

Discrimination R- Physical damage or failure of equipment are not allowed, but damage of protection device (fuse) caused by interference signal of outside is allowed, and the whole equipment can work normally after replacement of protection device and reset of running parameter

6.

Environmental testing requirements

No.	Item	Technical specification	Remark
1	High environmental temperature ambient operating	+40°C	Features OK
2	Low environmental temperature ambient operating	-10°C	Features OK
3	High temperature storage	+70°C	Work normally after recovery under normal temperature for 2 hours
4	Low temperature storage	-40°C	Work normally after recovery under normal temperature for 2 hours

7.

Mechanical characteristic:

Shell material: Aluminum

Outline dimension: L*W*H=330×175×90mm

Input socket: meets IEC standard

AC wires: 1.5m length

DC wire: 1.5m length

Net Weight: 6.5Kg

8.

Package, transportation & storage

8.1

Package:

There is product name, model, name of manufacturer, safety approval, serial number, User Manual and packing list in the package box.

8.2

Transportation:

Suit for transportation by truck, the products should be Placed in cool dry place, and loaded and unloaded carefully.

8.3

Storage:

Products should be stored in package box when it is not used. And Warehouse extreme temperatures should be $-40 \sim 70 \text{ }^{\circ}\text{C}$, the normal temperature $-20 \sim 50 \text{ }^{\circ}\text{C}$, and relative humidity is 5~95%. In the warehouse, there should not be harmful gas, inflammable, explosive products, and corrosive chemical products, and strong mechanical vibration, shock and strong magnetic field affection. The package box should be above ground at least 20cm height, and 50cm away from wall, thermal source, and vent. Under this requirement, product has 2 years of storage period, and should be rechecked when over 2 years.

9.

Reliability requirements

MTBF (standard, environmental temperature, load requirement) $\geq 50\text{K}$ hours;

testing condition: 25°C , full load, testing proved value.

10.

Charging Curve

