Specification of Battery Charger

ES1225E

14.6V/25A

14.6V / 25A Li Iron/Li Polymer BATTERY CHARGER



1. General

1225E 210×120×70mm 14.6Vdc/25A

Battery Charger $1225E\ 210\times120\times70mm$ can work normally under 14.6Vdc/25A and with reverse polarity protection.

2. Main product specification

Max.output power	Input voltage	Output voltage	Combined regulation	Output current	Combined regulation
600W	220Vac	14.6V+/-0.2Vdc	+/-0.2V	25A	+/-0.2A

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	220Vac	
2	Input voltage range	180 ~ 240Vac	230Vac
3	AC input voltage frequency	50∼60 Hz	

4.2 Output characteristic or charge stages

No.	Item	Technical specification	Remark
1	CC(constant current)	≤14.6Vdc, 25A	
2	CV(constant voltage)	14.6Vdc, 25A ↓	
3	Float stage		5%CC
4	Power efficiency	≥90%	=230Vac, Vin=230Vac,rated load

4.3 Protection characteristics

No.	Item	Technical specification	Remark
1	Over voltage protection	Yes	
2	Software over voltage protection	The charger software limits the maximum output voltage to a level suitable for the connected battery system.	
3	Thermal protection	No	
4	Current limiting protection	Yes	At CC mode
5	Short circuit protection	Short circuit protection should be automatically recovery after remove the condition.	
6	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 充电指示

Charging indicator

No.	Item	Status	Remark
1	Power on	LED1: Red	

2	Charging	LED2: Red	
3	Fully charged	LED2: Green	
4	Charging Voltage Display	No	
5	Charging Current Display	No	

5. Safety & EMC

No.	Item		Standard (or test condition)	Remark
1	Electric strength test	Input-output	1500Vac/10mA/1min	No breakdown
2	Isolation	Input-ground	≥10Mohm@500Vdc	
2	2 resistance	Output-ground	≥10Mohm@500Vdc	
3	Leakage current		<3.5mA	Vin=264Vac
4	LVD		EN60335-1:2002+EN60335-2-29:2002	

A:

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

R: 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 teting requirements

No.	Item	Technical specification	Remark	
1	High temperature	+40°C	Features OK Features OK	
	ambient operating			
2	Low temperature	-10℃		
	ambient operating	10 0		
3	High temperature	+70°C	Work normally after recovery under	
3	storage	+70 C	normal temperature for 2 hours	
4	Low temperature	-40℃	Work normally after recovery under	
4	storage	-40 C	normal temperature for 2 hours	
5	Random vibration	20Hz to 2000Hz 3Grms 20hours		
3	Kandom vioration	per axis		
6	Danatitiva ahaala	40g peak 3 orthogonal axes, 3+ and		
0	Repetitive shock	3- in each axis, 11ms pulse width		
7 Therm	Thermal shock	-35° C to 75° C, <3 min transition,		
	Thermal snock	2.5hours dwell, 200cycle		
8	Drop test	BS EN60068-2-32:1993 TEST ED:		
8		free fall appendix B		

7. Mechanical characteristic:

Shell material: Aluminum

$=210 \times 120 \times 70$

Outline dimension: L*W*H= $\frac{210}{120} \times \frac{70}{120}$ mm

Input socket: meets IEC standard

AC wires: 1.5m length DC wire: 1.5m length Net Weight: 2.5Kg

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 shielded by tent from sunshine, and loaded and unloaded carefully.

8.3 Storage:

Products should be stored in package box when it is not used. And warehouse temperature should be $-40\sim70^{\circ}$ C, and relative humidity is $5\sim95\%$. 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) ≥50K hours;

:25℃,

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

10. Charging Curve

