Specification of Battery Charger

MODEL :CHAB-1205 14.6V / 5A LITHIUM BATTERY CHARGER



Subject to change without prior notice, please feel free to contact us for latest information.

1. General

Battery Charger1205 135×90×50mm can work normally under 14.6VDC/6A.

2. Main product specification

Max. output power	Input voltage	Output voltage	Output current range	Combined regulation
90W	220Vac	$+14.6V \pm 0.2Vdc$	$6A\pm0.2A$	$\pm 0.2 V$

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	110/230Vac
2	Input voltage range	180 ~ 264Vac	
3	AC input voltage frequency	50~60 Hz	

4.2 Output characteristic

No.	Item	Technical specification	Remark
1	Constant Current Stage(CC)	5A	
2	Costant Voltage Stage(CV)	14.6V±0.2Vdc	
4	Cut off	14.6V,0.25A	5%
5	Power efficiency	≥90%	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	N/A	
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 Charging indicator

No.	Item	Status	Remark
1	Power on	LED1: Red	
2	Charging	LED2: Red	
3	Fully charged	LED2: Green	

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	
	resistance	Output-ground	≥10Mohm@500Vdc	
3	Leakage curre	ent	<3.5mA	Vin=264Vac
4	Safety		CE / UL compliant	
5	EMC		EN55022:1998+A1:2000+A2:2003	
			EN55024:1998+A1:2001+A2:2003	
			(EN61000-4-2:1995+A1:1998+A2:2001)	
			EN61000-4-3:2002	
			EN6100-4-4:1995+A1:2000+A2:2001	
			EN61000-4-5:1995+A1:2000	
			EN61000-4-6:2001	
			EN61000-4-11:2001)	
6	LVD		EN60335-1:2002+EN60335-2-29:2002	

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

Discrimination B- Function temporarily debasement without reposition and halt is allowed;

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 temperature	+40°C	Features ok
	ambient operating		
2	Low temperature	-10°C	Features ok
	ambient operating		
3	High temperature	+70°C	Work normally after recovery under
	storage		normal temperature for 2hours
4	Low temperature	-40°C	Work normally after recovery under
	storage		normal temperature for 2hours
5	Random vibration	20Hz to 2000Hz 3Grms 20hours per axis	
6	Repetitive shock	40g peak 3 orthogonal axes, 3+ and 3- in	
		each axis, 11ms pulse width	
7	Thermal shock	-35°C to 75°C, $<$ 3min transition, 2.5hours	
		dwell, 200cycle	
8	Drop test	BS EN60068-2-32:1993 TEST ED: free	
		fall appendix B	

7. Mechanical characteristics

Outline dimension: L*W*H=135×90×50 mm

Input socket: meets IEC standard;

Net Weight: 0.7Kg

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 -40~70°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 50K hours; testing condition: 25°C, full load, testing proved value.

10. Charger wiring

10.1 A spark often on first connection of the charge to the battery terminals due to charging the internal output capacitors, this is normal and should not lead to undue concern, care should be taken to ensure the battery vent caps are closed and there are no flammable object in the vicinity of where the connection will be made

10.2 The charger has been calibrated to take account of the voltage drop in the DC output cables during operation, to prevent the possibility of over or under charging of the battery it is recommended the DC output cable are connected directly to the battery without modification. We are able to customize cable length and connections for volume

customers with specific requirements.

11. Charging Curve

