

General

ES120W 135×90×50mm 29.4vdc/2A

Battery Charger ES120W $135 \times 90 \times 50$ mm can work normally under 29.4vdc/2A and with reverse polarity protection.

Main product specification

Max.output power	Input voltage	Output voltage	Combined regulation	Output current	Combined regulation
120W	220V	29.4V+/-0.2V DC	+/-0.2V	2A	+/-0.2A

Environmental condition

No.	Item	Technical specification	Remark
1	Humidity	5~95%	With package
2	Altitude	≤5000m	Work normally

Electrical characteristics

4.1

Input characteristic

No.	Item	Technical specification	Remark
1	Rated input voltage	220Va	
2	Input voltage range	180~ 240Vac	
5	AC input voltage frequency	50~60 Hz	

4.2

Output characteristic or charge stages

No.	Item	Technical specification	Remark
1	CC(constant current)	≤29.4vdc, 2A	
2	CV(constant voltage)	29.4vdc, 2A ↓	
4	Power efficiency	≥90%	=250Vac, Vin=250Vac,rated load

4.5

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.	
5	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	charger will not operate and will work normally when DC	

4.4

Charging indicator

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

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	
5	Leakage current		<5.5mA	Vin=264Vac
4	LVD		EN60555-1:2002+EN60555-2-29:2002	

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

No.	Item	Technical specification	Remark
1	High temperature ambient operating	+40°C	Features OK
2	Low temperature ambient operating	-10°C	Features OK
5	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
5	Random vibration	20Hz to 2000Hz 5Grms 20hours per axis	
6	Repetitive shock	40g peak 5 orthogonal axes, 5+ and 5- in each axis, 11ms pulse width	
7	Thermal shock	-55°C to 75°C, <5min transition, 2.5hours dwell, 200cycle	
8	Drop test	BS EN60068-2-52:1995 TEST ED: free fall appendix B	

Environmental testing requirements

Mechanical characteristic: Shell material: Aluminum Outline dimension: $L*W*H=135 \times 90 \times 50$ mm Input socket: meets IEC standard AC wires: 1.5m length DC wire: 0.85m length Net Weight: 0.8Kg

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.

8.5 Storage:

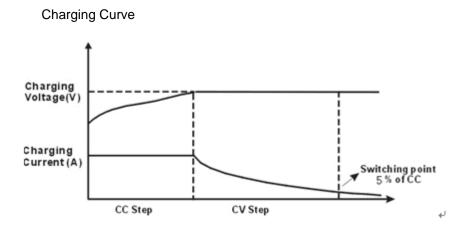
Products should be stored in package box when it is not used. And warehouse temperature should be $-40 \sim 70^{\circ}$ C, and relative humidity is 5~95%. In the warehouse, there should not be harmful gas, inflammable, explosive products, and corrosive chemical products, and strong mechanical vibration, 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 ≥50K

MTBF (standard, environmental temperature, load requirement) \geq 50K hours; testing condition: 25°C, full load, testing proved value.

10.



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Adapters category:

Click to view products by E-SHINE manufacturer:

Other Similar products are found below :

GP ECO B421 + 4XAA RECYKO 2100 GP ECO B421 + 4XAA RECYKO 2700 GP ECO E211 + 2XAA RECYKO 2100 PB2S BLUE PD45II GP ECO M451 + 4XAA RECYKO 2700 GP E411 + 4 X R6 2100 RECYKO CABLE-3/CL EPA1020-075 EPA1206PRO CABLE-2/CL 6PRMOBI06S 6PRO122420 CABLE-1/CL POLOLU MICROSD ADAPTER GROVE CAPE FOR BEAGLEBONE GROVE BREAKOUT FOR LINKIT SMART 7688 DUO RBFN-EU-SEN-BMT-12 11293 9127 9546 9755 9983 OKY1201 OKY1204 12C HUB DUAL MAX14870 MOTOR DRIVER SHIELD AB-12.100/ST8VA BC-20 PRO 20A 12V BC4 BQ-CC65 CL12.6VDC-1.5A CL12.6VDC-2.5A CL12.6VDC-4.76A CL8.4VDC-1.2A CL8.4VDC-2.5A CL8.4VDC-5A EP12M248L GM3A GP 2XP861 + 8X2100 RECYKO DOK GP ECO B421 + 4XAA RECYKO 2100 + D451 GP P461 + 4 X 2100 RECYKO DOK GP PRO P461 + 4XAA RECYKO 2100 LIFEPO4-12.8V-5A LIFEPO4-38.4-5A LI-ION-11.1V-5A LI-ION-14.8V-10A LI-ION-14.8V-5A LI-ION-14.8V-8A LI-ION-25.9V-2A