

Battery Chargers

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Battery Charger

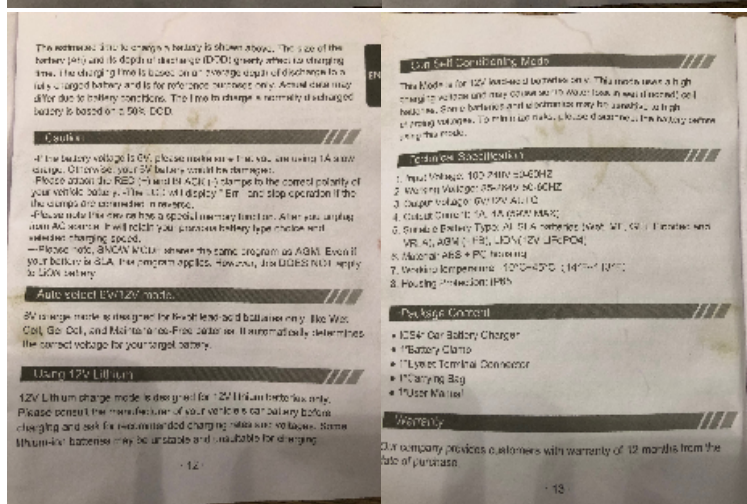
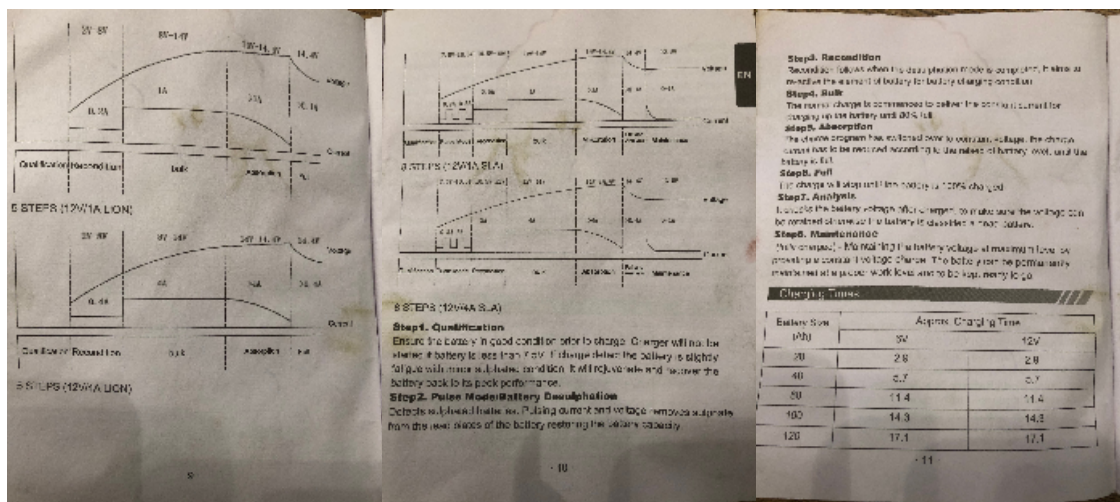
Suaoki ICS4



Supported Battery Types

- SLA/Flooded
- AGM
- LiFePO4 (12V - 4S)
- **NOT** Lithium Ion

Battery Type	Max Charging Voltage
SLA	14.4v
AGM	14.7v
LiFePO4	14.4



IMAX B6 Charger/Discharger

The iMax B6 is a rapid charger with a high performance microprocessor and specialized operations.



SoftwareOptimized operating software

iMax B6 features an AUTO function that controls the charge rate during charging and discharging. For Lithium batteries, this can prevent overcharging which may lead to an explosion due to the user's setting the charge rate improperly. It will disconnect the circuit automatically and initiate an alarm if there is any malfunction. All the operating modes of this charger are controlled through two way communication, between the charger and the battery to achieve maximum safety. All the settings can be configured by the user.

Internal independent lithium battery balancer

iMax B6 employs an individual-cell-voltage balancer. It is not necessary to connect an external balancer for balance charging.

Balancing individual cells battery discharging

During the process of discharging, the eXtreme 605 can monitor and balance each cell of the battery individually. An error message will be indicated and the process will be ended automatically if the voltage of any single one cell is abnormal.

Adaptable to various types of lithium battery

iMax B6 is adaptable to various types of Lithium batteries, such as Li-ion, LiPo and the new LiFe series of batteries.

"Fast" and "storage" mode of lithium battery

There are various methods of charging Lithium batteries. "Fast" charge reduces the charging time whereas "store charge" can control the final voltage of your battery. This method is best for long term storage and protects the useful life of the battery.

Maximum safety

Delta-peak sensitivity: The automatic charge termination program based on the principle of the Delta-peak voltage detection. When the battery's voltage exceeds the threshold, the process will be terminated automatically.

Automatic charging current limit:

You can set the upper limit of the charge current when charging your NiCd or NiMH batteries. This is useful for NiMH batteries of low impedance and capacity in the 'AUTO' charging mode.

Temperature threshold:

The batteries internal chemical reaction can cause the temperature of the battery to rise during charging. If the temperature limit is reached (set by the user), the charging process will be terminated. This function is available by connecting an optional temperature probe, which is not included in with the charger.

Processing time limit:

The user can set the maximum charging time. If the charging time exceeds the limit, the process will be terminated automatically when you set the maximum time for the charging mode.

Data store/load

The "" can store data from ten different batteries. The user can set the charging / discharging parameters for a particular battery type and "call up" these settings to charge a battery without additional programming needed.

Cyclic charging/discharging

Batteries can be set to charge/ discharge for 5 cycles if needed.

Specifications:

Operating voltage range: DC 11-18 Volts
Circuit power: Max. charge power 50W
Max. discharge power 5W
Charge current range: 0.1-5.0A
Discharge current range: 0.1-1.0A
Current drain for balancing Li-po: 300mA/cell
NiCd/NiMH battery cell count: 1-15cells
Li-ion/Fe/Polymer cell count: 1-6cells
Pb battery voltage: 2-20V
Net weight: 277g
Dimension: 133x87x33mm

Solar Charger

ALLPOWERS 20A Solar Charge Controller Solar Panel Battery Intelligent Regulator with USB Port Display 12V/24V.



Specifications

Voltage: DC 12V/24V

Self-consuming: 10MA

Rated Charge Current: 20A

Rated Load Current: 20A

Over charge Protection: 14.4V/28.8V

Over charge Floating charge: 13.7V/27.4V

Charge recover voltage: 12.6V/25.2V

Over discharge Protection: 10.7V/21.4V

Over discharge Recover: 12.6V/25.2V

USB output: 5V/3A

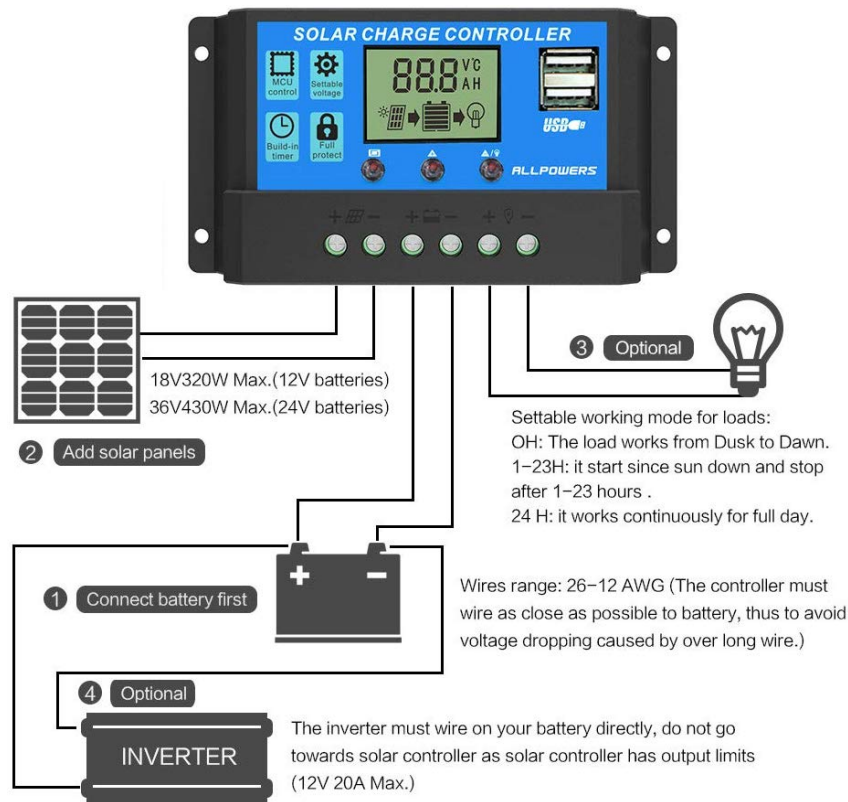
Operating temperature: -35-60

Size: 150 * 78 * 35mm / 5.9 * 3 * 1.4in

Supported Batteries

Setting	Battery Type	Nominal Voltage	Max Voltage	Notes
B-01	LEAD-ACID	12.6v	14.4	Default
B-02	LITHIUM ION (3S)	11.1v	12.6	
B-03	LiFePO4 (4S)	12.8v	14.4v	

(B01 is the default type, If you would like to to switch to another 2 types, please select it manually.)



Could charge the battery using a power supply to mimic the solar panel.

Max Input: 18V, 320W, 17A

References

Reference	URL
IMAX B6	https://www.skyrc.com/iMAX_B6_Charger
IMAX B6 Manual	IMAX_B6_Manual.pdf
Solar Charger	http://iallpowers.com/index.php?c=product&id=371
Solar Charger Manual	KLD1210.pdf