6X80+ Charger (SK100035)

SkyRC 6x80 Plus is a high-performance, micro processor control charge/discharge station with battery management suitable for use with all current battery types. With integral equalizer for six-cell, Lithium- Polymer (LiPo), Lithium-Ferrum (LiFe) and Lithium-Ion (LiIon) batteries. Maximum 10A charge current; maximum 80W charge power; can be powered by a 12 Volt car battery or from 100V-240V via the built in switch-mode power supply.

Optimized Operating Software

SKYRC 6x80 Plus features the so-called AUTO function that set the feeding current during the process of charging or discharging. Especially for lithium batteries, it can

prevent the overcharging which may lead to an explosion due to the user's fault. It can disconnect the circuit automatically and alarm once detecting any malfunction. All the programs of this product were controlled through two way linkage and communication, to achieve the maximum safety and minimize the trouble. All the settings can be configured by users!

Internal Independent Lithium Battery Balancer

SKYRC 6x80 Plus employs an individual-cell-voltage balancer. It isn't necessary to connect an external balancer for balance charging.

Balancing Individual Cells Battery Discharging

During the process of discharging, SKYRC 6x80 Plus can monitor and balance each cell of the battery individually. 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 Type of Lithium Battery

SKYRC 6x80 Plus is adaptable to various types of lithium batteries, such as LiPo, LiIon and the new LiFe series of batteries.

Fast and Storage Mode Lithium Charge

Purposes to charge lithium battery varies, 'fast' charge reduce the duration of charging, whereas 'store' state can control the final voltage of your battery, so as to store for a long time and protect useful time of the battery.

Cyclic Charging/Discharging

1 to 5 cyclic and continuous process of charge>discharge or discharge > charge is operable for battery refreshing and balancing to stimulate the battery's activity.

Data Store/Load

The charger can store up to 10 different charge/discharge profiles for your convenience. You can keep the data pertaining to program setting of the battery of continuous charging or discharging. Users can call out these data at any time without any special program setting.

Terminal Voltage Control (TVC)

The charger allows user to change the end voltage.

LiPo Battery Meter

The user can check battery's total voltage, the highest voltage, the lowest voltage and each cell's voltage.

Motor RPM Tester

Users connect the sensor motor and charger with sensor wire, set the pulse width and test the RPM of the motor.

Servo Tester

Connect the servo and the charger with wire, change the pulse width value and check whether the servo works or not.

Re-Peak Mode of NiMH/NiCd Battery

In re-peak charge mode, the charger can peak charge the battery once, twice or three times in a row automatically. This is good for making certain the battery is fully charged, and for checking how well the battery receives fast charges.

Delta-Peak Sensitivity NiMH/NiCd Battery

Delta-peak sensitivity for NiMH/NiCd battery: 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 up the upper limit of the charging current when charging your NiMH or NiCd battery, it is useful for the NiMH battery of low impedance and capacity in the 'AUTO' charging mode.

Capacity Limit

The charging capacity is always calculated as the charging current multiplied by time. If the charging capacity exceeds the limit, the process will be terminated automatically when you set the maximum value.

Temperature Threshold

The battery's internal chemical reaction will cause the temperature of the battery to rise. If the temperature limit is reached, the process will be terminated.

Processing Time Limit

You can also limit the maximum process time to avoid any possible defect.

PC Control Software "Charge Master"

The free “Charge Master” software gives you unparalleled ability to operate the charger through the computer. You can monitor pack voltage, cell voltage and other data during the charging, view charge date in real-time graphs. And you can initiate, control charging and update firmware from “Charge Master”.

TECHNISCHE DATEN

Input Voltage	AC Input: 100-240V DC Input: 11-18V
Controls	Enter/Start Rotary Dial, Mode/Stop Button
Display Type	63.40x14.54mm LCD screen
Display Backlight	Blue
Case Material	Plastic
Cooling System	1 Built-in 30x30x7mm fan
PC Communications	USB Port for PC Control & Firmware Upgrade
External Port	Temp Sensor, Servo/ESC Port, Brushless Motor Sensor Port, AC Input Power Port, Balance Socket, USB Port for PC
Delta Peak Detection	3-15mV/cell
Charge Cutoff Temperature	20-80°C
Charge Voltage	LiPo: 4.18-4.30V/cell LiIon: 4.08-4.20V/cell LiFe: 3.58-3.7V/cell
Balance Current	200mA/cell
Voltage Range	0.3 - 5.0V/cell
Maximum Cells	LiPo/LiFe/LiIon: 1-6 cells NiMH/NiCd: 1-15 cells Pb: 2-20V
Battery Capacity Range	100-50000mAh
Charge Current	0.1-10A
Charge Wattage	AC: 50W DC: 80W
Safety Timer	1-720 minutes, Off
Discharge Current	0.1-2A
Discharge Wattage	8W
Discharge Cut-off Voltage	NiMH/NiCd: 0.1-1.1V/cell LiPo: 3.0-3.3V/cell LiIon: 2.9-3.2V/cell LiFe: 2.6-2.9V/cell Pb: 1.8V
Balance Cells	6 cells
Memory	10 charge/discharge profiles
Charge Method	CC/CV for lithium types and lead batteries, Delta-Peak for NiMH/NiCd
Weight	525g
Dimensions (LxWxH)	135x112x60.9mm

DOWNLOADS

Charge Master Windows Software (49.7 MiB)