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Link to the product: https://www.skyrc.eu/skyrc-b6-nex-charger-1-6s-lipolifelilonlihv-ac-50w-dc-200w-10a-p-746.html

SkyRC B6 Nex Charger 1-6S LiPo/LiFe/Lilon/LiHV AC 50W / DC 200W 10A

Price	**77.41 Euro**
Availability	**Available in stock**
Shipping time	**24 hours**
Producer code	**SK-100174**
Manufacturer	**SkyRC**

Product description

SkyRC B6 Nex Charger 1-6S LiPo/LiFe/Lilon/LiHV AC 50W / DC 200W 10A

Building on the success of our iconic legendary iMax B6, the SkyRC B6 Nex, is a high-performance solution designed for hobbyists.

With the dual power AC/DC input, B6 Nex can charge the 1-6 cell Li-ion or LiPo batteries at a maximum charge current of 10A. The built-in Bluetooth 5.0 enables B6 Nex's connectivity with smartphones. The app can push notifications reminding users that charge or discharge is completed or there is a firmware upgrade. With B6 Nex, charging becomes a faster and more convenient experience!

Small in size, Big on power

Thanks to the lightweight structure and optimized firmware, B6 Nex can fit into your pocket. The maximum power of B6 Nex can reach up to 200W.

Stunning VA display: everything at a glance

Menu navigation is made easy with the intuitive three-button control interface.
With the stunning backlit 2.4-inch VA screen, large viewing angle, high WBC, rapid response, all information is clear at a glance.

On the cutting edge with GaN Power

By replacing silicon with gallium nitride, we’ve been able to implement our proprietary charging algorithm and optimal thermal dissipation technique to shrink its size, minimize the temperature rise, delivers more power, further than ever before! Charging is a breeze!

Get to know GaN

What is GaN?
Gallium nitride (GaN) is a very hard, mechanically stable wide bandgap semiconductor. GaN is used in the production of semiconductor power devices as well as RF components and light-emitting diodes (LEDs). GaN has demonstrated the capability to be the displacement technology for silicon semiconductors in power conversion, RF, and analog applications.
The rise of GaN
The leading candidate for taking electronic performance to the next level and reactivation of positive momentum of Moore’s Law is gallium nitride. GaN’s ability to conduct electrons more than 1000 times more efficiently than silicon, while being able to be manufactured at a lower cost than silicon has now been well established. Silicon is out of gas, and new, higher-performing semiconductor material is emerging – GaN is on the rise.
Advantages of GaN chargers
small size, easy to carry, high-wattage porous output, and high wattage output.
The con of GaN is it is expensive

it requires synthetic materials, which are much more difficult to manufacture than traditional silicon.

AC/DC Dual Power Input

B6 Nex comes with both AC and DC power input, which can meet you on power supply in different circumstances. .

Multi-purpose for Most Battery Chemistries

The juice box comes with the charging algorithm for the most common battery chemistries: LiPo, Li-Ion, LiHV, LiFe, NiMH, NiCD, and Pb (lead acid).

Adjustable Cut-off Voltage

You can set charging cut-off voltage according to your needs. Furthermore, B6 Nex can memorize the last setting parameters (for professional players only).

Smart & Efficient Cooling

Temperature-controlled 12000rpm high-speed sleeve bearing cooling fan effectively blows the air through the extruded aluminum heat sink, cooling the unit down.

Bluetooth 5.0

A new generation of Bluetooth technology. Faster and more stable connection.
B6 NEX has a built-in Bluetooth 5.0 chip which data transmission rate is 2 times higher than that of Bluetooth 4.0, and the connection is faster and more stable.

Intuitive Android & iOS application

Wireless firmware upgrade

Through the smart app, the charger can be quickly upgraded wirelessly. There is no need to buy an expensive legacy data cable for firmware upgrade through a computer. The firmware upgrade is made easy with the smartphone.

PAckage:

- SkyRC B6 Nex
- Power cord
- Manual

Specifications

Case Material: Plastic
Case Size: 112x75x38mm
Weight: 237.7g

Display

Type: VA LCD

Buttons And Port

External Port: 2-6S Balance Socket-XH,Battery Socket, DC Input, AC Input
Buttons: Increase Button, Decrease Button, Start/Stop Button

Power

DC Input : 10-30V
Charge: 200W
Discharge: 10W

AC Input: 100-240V(50-60HZ)
Charge: 50W
Discharge: 10W

Battery

BatteryTypes/Cells:
LiPo/LiIon/LiFe/LiHV: 1-6cells
NiMH/NiCd: 1-15cells
Pb: 1-10S(2-20V)

Battery Capacity Range:
NiMH/NiCd: 100-50000mAh
LiPo/LiIon/LiFe/LiHV: 100-50000mAh
Pb: 100-50000mAh

Charge and Discharge

Charge Voltage
NiMH/NiCd: Delta peak detection

LiPo: 4.18-4.25V/cell
LiFe: 3.58-3.7V/cell
Pb: 2.4V/cell

LiIon: 4.08-4.2V/cell
LiHV: 4.25-4.35V/cell
AGM/COLD: 2.45V/cell

Discharge Cut-off Voltage

NiMH/NiCd:0.1-1.1V/cell

LiPo: 3.0-3.3V/cell
LiFe: 2.6-2.9V/cell
Pb: 1.8V/cell

LiIon: 2.9-3.2V/cell
LiHV: 3.1-3.4V/cell

Charge Current: 0.1A-10.0A
Discharge Current: 0.1A-2.0A
Balance Cells: 1-6 cells
Balance Current: 1000mA/cell Max
Safety Timer: 1-720minutes off

Charge Method:

CC/CV for lithium types and lead(Pb) batteries Delta-peak Sensitivity for NiMH/NiCd.

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