

# SkyRC NC3000 Pro Charger



Model: SK-100209-01

Manufacturer: SKYRC

EAN: 6930460009517

Product Code: 1079089

## R2,342

### SkyRC NC3000 Pro Charger

SkyRC NC3000 Pro is an advanced charger for NiMH and NiCd batteries, combining high performance with full control over the charging process. Support for PD (Power Delivery) and QC (Quick Charge) standards allows for very high operating power and charging up to 3000 mA per cell. The device offers four independent slots, up to 6 intelligent operating modes, adjustable charging and discharging current, automatic adjustment of parameters to the condition of the battery, and convenient control from a mobile app via Bluetooth. Added to this is an active cooling system, advanced security features, and battery regeneration and testing functions. All this makes the NC3000 Pro a comprehensive tool for energy management at home, in the workshop, or in professional applications.

### 6 smart operating modes - adjust charging to the battery condition

The charger is equipped with six advanced operating modes that allow you to precisely adjust the charging process to the condition and application of the battery. Turbo mode allows you to prepare

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the battery for operation very quickly when every minute counts. Standard Charge mode is responsible for safe and efficient charging in everyday use. The Discharge function allows you to control the discharge of the battery, which helps to keep it in good condition. MaxBoost mode maximizes battery performance through appropriately programmed operating cycles. Break-in is designed to format new or long-unused cells, while Cycle automatically performs charge and discharge cycles to help regenerate and test the battery. This gives you full control over the performance and life of your batteries.

## **Four independent slots - complete charging freedom**

The SkyRC NC3000 Pro offers four independent channels for AA and AAA batteries, allowing you to charge several batteries with different parameters and in different states of wear at the same time. Each slot operates independently, so you can set different parameters for each cell and monitor its operation separately. Adjustable charging current in the range from 0.20 A to 3.0 A with an accuracy of 0.1 A allows you to perfectly match the charging process to the capacity and condition of the battery. This solution provides greater flexibility and significantly improves the efficiency of working with batteries.

## **Lightning-fast operation thanks to PD and Quick Charge**

The charger uses modern Power Delivery and Quick Charge standards, which guarantee fast and stable power delivery. When powered by PD, the device can charge each cell with up to 3000 mA while simultaneously discharging four batteries with up to 2500 mA per slot. The maximum charging power is 22 W, while the maximum discharging power is 15 W. This means that even heavily used batteries can be quickly prepared for further use.

## **Intuitive control and convenient operation**

The NC3000 Pro has been designed with everyday convenience in mind. The device is equipped with a precise aluminum control knob that allows you to quickly navigate the menu and change settings. The modern ColorX interface with clear icons and a transparent layout makes the charger easy and intuitive to use, even for those who have not previously used advanced battery chargers.

## **Clear LED indicators - operating status at your fingertips**

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The charger is equipped with intuitive LED indicators that allow you to quickly check the operating status of the device. A single glance is enough to find out whether the battery is currently charging, whether the process has been completed, or whether it is being discharged. This allows the user to easily control the entire process without having to constantly check the detailed parameters in the menu.

## **Battery regeneration - longer battery life**

The charger's advanced features allow you to restore the performance of many worn-out batteries. Using the Cycle mode, you can perform several charging and discharging cycles to help recover some of the lost capacity. If the improvement is not sufficient, the Break-in mode allows you to perform a thorough battery conditioning process. This allows many batteries to regain their efficiency and continue to work in devices, saving money and reducing electronic waste.

## **Battery formatting - the perfect start for new cells**

The formatting process involves activating the battery using small charging and discharging currents in a CDC sequence. In the NC3000 Pro charger, this can be conveniently performed in Break-in mode. This allows new or long-unused batteries to achieve stable operating parameters and full performance, which translates into longer life and more predictable operation.

## **Matching batteries for maximum device performance**

In many electronic devices, batteries work in pairs or larger sets. If one of them has a significantly lower capacity, it limits the operating time of the entire device. The NC3000 Pro allows you to check the actual capacity of the batteries and match them in terms of parameters. This allows you to create sets of batteries with similar performance, which significantly improves the stability of the equipment and extends its operating time.

## **Intelligent cooling - high power without overheating**

Efficient operation at high charging currents requires effective heat dissipation. Inside the NC3000 Pro housing, there is a dual fan system that automatically adjusts the operating speed to the current load. This keeps the charger cool even during intensive use, while operating very quietly.

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## Advanced protection and intelligent FlexiPulse algorithm

SkyRC has incorporated advanced safety systems into this model to protect both the device and the batteries. The charger has protection against too low and too high input voltage, voltage alarms, and capacity protection that prevents overcharging or excessive discharge of the battery. In addition, the innovative FlexiPulse algorithm monitors the internal resistance of the batteries and automatically reduces the charging current if it increases. This reduces cell heating and significantly improves the safety of the entire process.

## Smartphone control and data analysis in the app

The NC3000 Pro has a built-in Bluetooth module that allows you to connect the charger to your smartphone. The free SkyCharger app offers a convenient graphical interface that allows you to monitor the charging process in real time. Users can analyze battery performance graphs, record charging history, and more accurately control battery operating parameters. This makes energy management even easier and more informed.

## Included:

- Charger
- User manual

## General specifications

|                           |                        |
|---------------------------|------------------------|
| Manufacturer              | SkyRC                  |
| Model                     | NC3000 Pro             |
| Product type              | Battery charger        |
| Supported battery types   | NiMH, NiCd             |
| Supported battery sizes   | AA, AAA                |
| Number of charging slots  | 4 independent channels |
| Number of operating modes | 6                      |

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|                                         |                                                                     |
|-----------------------------------------|---------------------------------------------------------------------|
| <b>Supported power protocols</b>        | PD (Power Delivery), QC2.0, QC3.0, PD3.0                            |
| <b>Supported battery capacity</b>       | 100–5000 mAh                                                        |
| <b>Dimensions</b>                       | 134 × 105 × 61 mm                                                   |
| <b>Weight</b>                           | approx. 380 g                                                       |
| <b>Internal resistance measurement</b>  | Yes (FlexiPulse algorithm)                                          |
| <b>Temperature management algorithm</b> | Automatic charging current adjustment                               |
| <b>Cooling system</b>                   | Dual fan with intelligent speed control                             |
| <b>Control</b>                          | Aluminum knob + ColorX interface                                    |
| <b>Wireless connectivity</b>            | Bluetooth                                                           |
| <b>Mobile app</b>                       | SkyCharger                                                          |
| <b>Battery analysis functions</b>       | Capacity measurement, charge/discharge cycles, performance analysis |
| <b>Overcharge protection</b>            | Yes                                                                 |
| <b>Over-discharge protection</b>        | Yes                                                                 |

## Technical specifications

|                                           |                                                 |
|-------------------------------------------|-------------------------------------------------|
| <b>Charge current range</b>               | 0.20 – 3.00 A (adjustable in 0.10 A increments) |
| <b>Discharge current range</b>            | 0.20 – 2.50 A (adjustable in 0.10 A increments) |
| <b>Trickle charge</b>                     | 10 – 300 mA / OFF                               |
| <b>Maximum charging current per slot</b>  | 3000 mA                                         |
| <b>Maximum discharge current per slot</b> | 2500 mA                                         |
| <b>Maximum charging power</b>             | 22 W                                            |
| <b>Maximum discharge power</b>            | 15 W                                            |
| <b>Maximum input power</b>                | 30 W                                            |
| <b>Target charging voltage</b>            | 1.47 – 1.80 V                                   |
| <b>Discharge cut-off voltage</b>          | 0.50 – 1.10 V                                   |
| <b>ΔV detection</b>                       | 1 – 20 mV                                       |

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**Low input voltage protection**       $4.7\text{ V} \pm 0.3\text{ V}$

**High input voltage protection**       $22\text{ V} \pm 0.3\text{ V}$

GPSR Link: [https://psr-assets.innpro.pl/rc\\_models/sg\\_rc\\_models\\_charging.pdf](https://psr-assets.innpro.pl/rc_models/sg_rc_models_charging.pdf), Gross weight: 500, Box length: 15,50, Box width: 12,50, Box height: 9,00, Net weight: 380, PPWR:

<https://ppwr.innpro.pl/skyrc>

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