

SKYRC

Instruction Manual

v. 13



PDC100 GaN Charger

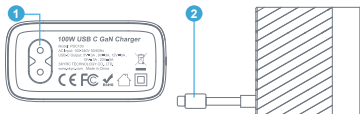
Overview

Thank you for choosing SkyRC PDC100 100W USB C GaN Charger

SkyRC PDC100 is a compact, high-efficiency charger designed to deliver stable power to SkyRC smart chargers and other compatible devices.

With support for major fast charging protocols including PD3.0, PPS, QC2.0/3.0, this charger ensures wide compatibility and rapid charging capabilities.

Leveraging GaN (Gallium Nitride) technology, it achieves high performance with excellent thermal control in a lightweight, travel-friendly size.



1 AC Input

2 Built-in USB-C extension cable

Caution

The main plug/AC inlet is used as disconnect device, the socket-outlet should be easily accessible

What's Included



PDC100 GaN Charger*1pc



AC Power Cord*1pc



Instruction Manual *1pc

Key Features

- Wide AC Input Range: 100–240V AC, 50/60Hz
- High Efficiency GaN Technology
- 100W Output with Built-in USB-C extension cable (30 cm)
- Supports PD3.0, PPS, QC2.0/3.0 Protocols
- Intelligent Line Loss Compensation
- Multiple Protection Mechanisms (OCP, SCP, OVP, UVP, OTP)
- Compact Design with High Power Density

SAFETY INSTRUCTIONS

Warning: To reduce the risk of fire or electric shock, carefully follow all the instructions. This manual contains important safety and operating instructions for this power supply. Before you use the charger, read all the instructions and cautions markings in this manual of the charger and the product that you will connect to the charger to reduce the risk of injury:

- Do not use the charger near water (for example, a bathtub, washbowl, kitchen sink, laundry tub, wet basement, or swimming pool).
- Do not place the charger on an unstable cart, stand or table. If the power supply falls, it could injure a person or cause severe damage to the charger.
- Do not overload power outlets or extension cords. An overload can result in fire or electric shock.
- Do not disassemble this unit; take it to a qualified service technician when service or repair is required. Improper reassembly may result in a risk of electric shock or fire.
- Do not use an attachment not recommended. This could result in a risk of fire, electric shock, or injury to persons.
- Never push any object into the slot in the charger. It could touch dangerous voltage points or short-out parts resulting in a fire or electrical shock.

Specifications

Item	Option	Specification
Input Voltage/ Frequency		100–240V AC, 50/60Hz
Input Interface		AC Mains Socket
Output Interface		Integrated 30cm USB-C output cable
Rated Output Power		100W
Standby Power		< 0.3W
Protocols Supported		PD3.0, PPS, QC2.0/3.0
USB-C Output	PD3.0	5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A
	QC2.0	5V/3A, 9V/12V (Max 20W)
	QC3.0	5V ~ 12V (Max 20W)
	PPS	5V ~ 21V
Output Voltage Range (No Load)	5V	4.9V ~ 5.2V
	9V	8.9V ~ 9.3V
	12V	11.7V ~ 12.3V
	15V	14.6V ~ 15.4V
	20V	19.5V ~ 20.5V

Specifications

Item	Option	Specification
Load Compensation		+80mV/A (Max), e.g., at 5A load, 20V output = 19.5V ~ 20.9V
Conversion Efficiency		≥ 86%
Overcurrent Protection	3A	3.6±0.3A
	5A	5.6±0.3A
Short Circuit Protection		Yes
Dielectric Withstand	AC-USB-C	3000V, <10mA leakage, 60s
Operating Environment	Temp.	0°C to 40°C
	Humidity	5%~ 75% RH (non-condensing)
Storage Environment	Temp.	-10°C ~ 70°C
	Humidity	5% ~ 75% RH (non-condensing)
Dimensions (L×W×H)		63.5 × 62 × 32 mm
Weight		Approx. 150 g

OPERATION

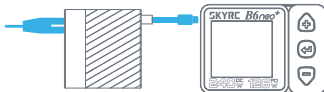
1. Connect the AC Input

Plug the charger into a standard AC outlet (100V ~ 240V, 50/60Hz).



2. Connect the Output

Use the built-in USB-C cable to connect the charger to a compatible SkyRC charger or other PD-supported device.



3. The charger will automatically negotiate the appropriate voltage and current based on the connected device's requirements.

Conformity Declaration

PDC100 satisfies all relevant and mandatory CE directives and FCC Part 15 Subpart B.

Test Standard	Title	Results
EN-55032	Electromagnetic compatibility of multimedia equipment - Emission requirements	Conform
EN-55035	Electromagnetic compatibility of multimedia equipment - Immunity requirements	Conform
EN 61000-3-2	Electromagnetic compatibility (EMC) – Part 3-2: – Limits for harmonic current emissions (equipment input current up to and including 16 A per phase)	Conform
EN 61000-3-3	Electromagnetic compatibility (EMC) - Part 3-3: Limitation of voltage supply systems for equipment with rated current ≤ 16 A.	Conform
EN 62368-1	Audio/Video, information and communication technology equipment part 1: Safety requirement	Conform
FCC Part Subpart 15B	Title 47 Telecommunication PART 15 - RADIO FREQUENCY DEVICES Subpart B - Unintentional Radiators	Conform

Warranty and Service

Liability Exclusion

The charger is designed and approved exclusively for the scenarios stated in this Instruction Manual. SkyRC accepts no liability of any kind if the charger is used for any purpose other than that stated. We are unable to ensure that you follow the instructions supplied with the charger, and we have no control over the methods you employ for using, operating, and maintaining the device. For this reason, we are obliged to deny all liability for loss, damage, or costs that are incurred due to the incompetent or incorrect use and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by law, our obligation to pay compensation, regardless of the legal argument employed, is limited to the invoice value of those SkyRC products which were immediately and directly involved in the event in which the damage occurred.

Warranty and Service

We guarantee this product to be free of manufacturing and assembly defects for a period of one year from the time of purchase. The warranty only applies to material or operational defects, which are present at the time of purchase. During that period, we will repair or replace free of service charge for products deemed defective due to those causes.

This warranty is not valid for any damage or subsequent damage arising as a result of misuse, modification, or as a result of failure to observe the procedures outlined in this manual.

Warranty and Service

Note:

1. The warranty service is valid in China only.
2. If you need warranty service overseas, please contact your dealer in the first instance, who is responsible for processing guarantee claims overseas. Due to high shipping costs, and complicated custom clearance procedures to send back to China, please understand that SkyRC can't provide warranty service to overseas end users directly.
3. If you have any questions which are not mentioned in the manual, please feel free to send an email to support@skyrc.com.

The manual is subject to change without notice; please refer to our website for the latest version!

SKYRC

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