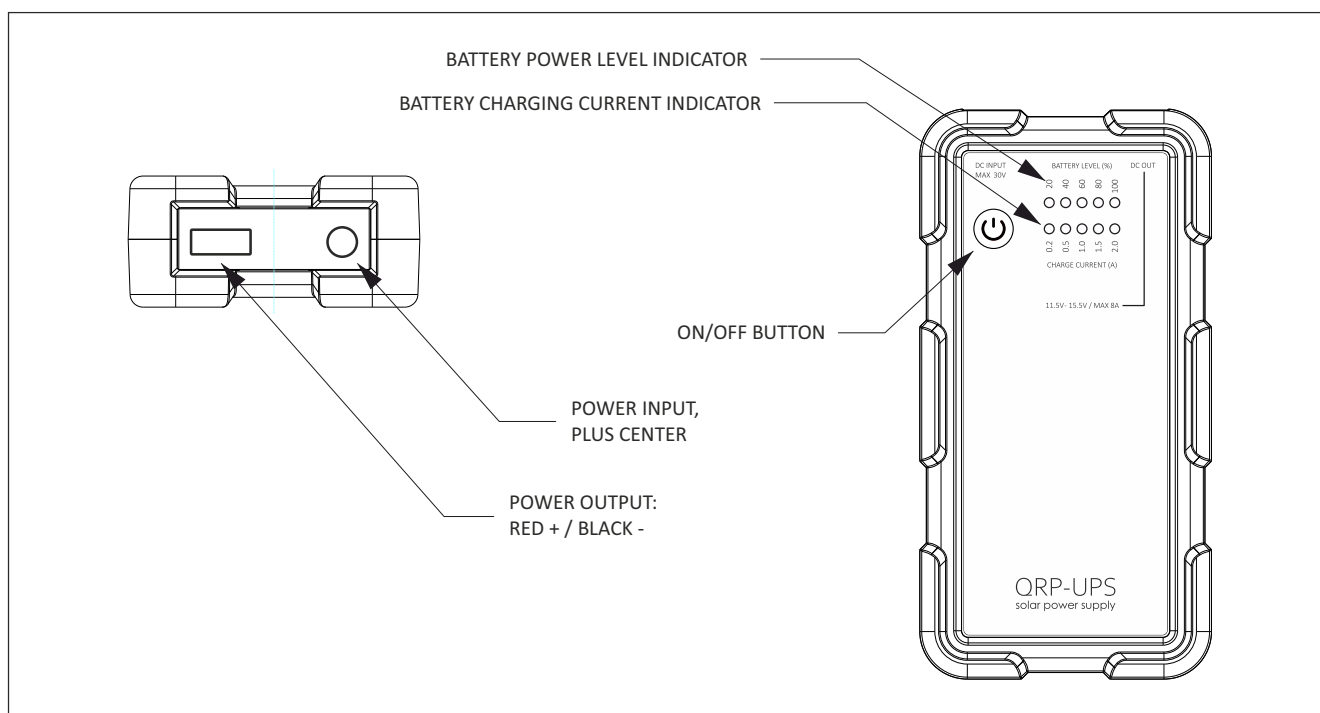


QUICK REFERENCE GUIDE

QRP-UPS SOLAR POWER SUPPLY FOR RADIO AMATEURS

Thank you for choosing our product. Please read this manual before using it for the first time and keep it for future reference.



1. Turning the device on and off. To turn the device on or off, press and hold the button. Immediately after turning on, the device will sound (in morse code) the battery voltage level. When the device is on, the top LED indicator is active and indicates the current battery power level. Each LED is assigned a level value (%). When it lights up the energy level is at least as the value in the description, when it blinks it is 10% less of that value.

i When it is on, press the button quickly 2 times, the morse code will be generated again.

2. Connecting the power supply - charging the battery. The device can be powered by a photovoltaic panel or other DC power source. We recommend using photovoltaic panels with a nominal power of 20 watts or more. While the power source is connected, the built-in battery is charged, and the LED indicator shows the level of current that is currently being directed to the battery. When the battery is >90% charged, and no load is connected to the power output, the charging current indication will decrease until all LEDs turn off when charging is complete. The device has an MPPT function, which maximizes the obtaining of energy from the photovoltaic panel, MPPT performs a full scan of the photovoltaic panel every few minutes. During this time, for about 1 second, the lower LED indicator will turn off and then return to the current display.

i The first full discharge or charge of the battery calibrates the internal energy meter.

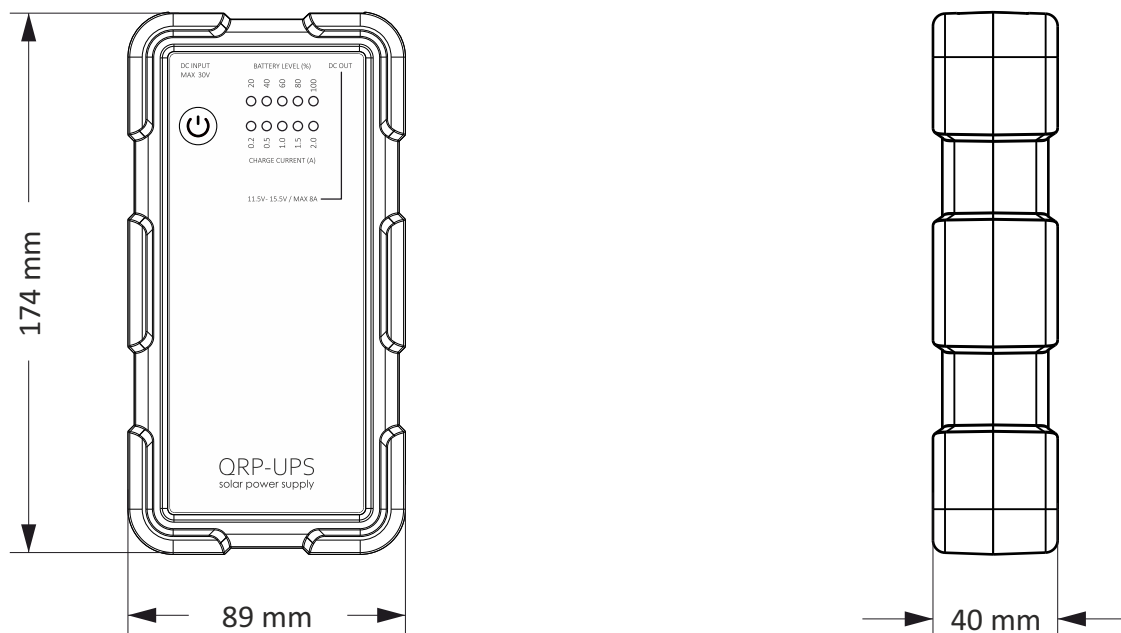
3. Usage. Connect the transceiver to the power output, keep the correct polarity. The diameter of the power wires should be appropriate for the current drawn. Do not use wires with a diameter of less than 1 mm². While the photovoltaic panel is connected to the power input, and the transceiver is connected to the power output, the energy from the photovoltaic panel will be directed to charge the built-in battery, the rest to the power output. The device has overload and short circuit protection at the power output. When an overload or short circuit occurs, the device will shut down. The device will be ready to turn on again after a period of 5 seconds.

SAFETY OF USE

CAUTION: THE DEVICE CONTAINS A RECHARGEABLE LITHIUM-ION BATTERY. DO NOT DESTROY OR DISPOSE OF THE DEVICE IN A FIRE. IT MAY CAUSE FIRE OR EXPLOSION!

TECHNICAL SPECIFICATION

1. Dimensions



2. Specification

PARAMETER	MIN	STANDARD	MAX	UNIT
Input Voltage (DC)	16		30	V
Output voltage range (DC)	11.4		15.6	V
Output current, continuous			8	A
Overload protection (3 to 5 sec.)	8.2			A
Short-circuit protection (0.001 sec.)	30			A
Effective capacity of the built-in Li-Ion battery		2700		mAh
Operating temperature range (when discharged)	-10		60	°C
Weight		0.59		Kg

MANUFACTURER CONTACT:

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