

SCGII plus



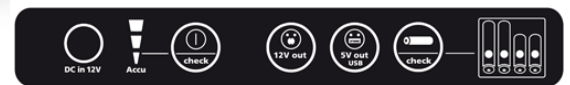
Solar Power Bank SCGII plus



Product picture similar



Detail of battery case for reloadable batteries with integrated solar panel socket.



1A 2 3 4 5 6 7

Detail of control panel.

The Solar Power Bank **SCGII plus** is a universal charger for mobile devices like mobile phone, MP3-player, digital camera, navigation systems, notebook and many more. The integrated lithium-ion-battery provides more than 65 Wh storage capacity which approximately suffices for one notebook charging.

The **SCGII plus** may be loaded either at the power socket with the included power supply as well as at the 12 V car plug or, alternatively, at an external solar panel which is available as an accessory. Thus it provides maximum independence, comfort and mobility for the user.

SCGII plus provides the possibility to **simultaneously** recharge a notebook, up to two mobile devices, and up to four reloadable batteries (two of type AA and type AAA, respectively).

The **SCGII plus** contains a top quality high power density rechargeable Li-ion-battery and offers the following unique features:

- Optimum solar energy yield under every operating condition via **MPP-Tracking** (Maximum-Power-Point-Tracking)
- Electronic **battery management** for maximum battery lifetime and system safety
- **Multitasking**. Loading of internal battery and recharging of up to three mobile devices and up to four reloadable batteries simultaneously.

SCGII plus



TECHNICAL DATA

Tab. 1: Socket Interface

Socket	Unit	Typ. Values	Description
DC IN 12V	V (DC)	10 ... 14,4	Suitable for 12 V electrical power supply or 12 V on-board voltage.
	A (DC)	max. 2	
Solar IN	V (DC)	6 ... 30	Up to two solar panels suitable for connection*. Solar panel socket is located in battery case.
	W	max. 30	
USB OUT	V (DC)	5	Two USB ports for recharging of mobile devices (several adapters for mobile devices available)
	A (DC)	max. 1	
Kfz OUT 12V	V (DC)	14,4	For recharging/operating notebooks up to 80W (depending on notebook type special charging cable is required, which is available on request)
	A (DC)	max. 6	

*Y-cable and solar panels available as accessories.

Tab. 2: Housing Dimensions and Weight

Weight	1000 g
Dimensions	150 mm x 285 mm x 25 mm

Tab. 3: Accumulator

Type	Li-Ion (14.8 V / 4.6 Ah)
Capacity	68 Wh at delivery time
Lifetime	After a minimum of 500 cycles the capacity is reduced to 60% of the initial value.
Charging Time	When charged with power supply at room temperature (2 A charge current at 12V) the battery reaches 80 % capacity after about 4 hours.

OPERATING AND STORAGE CONDITIONS

Tab. 4: Operating Conditions

Internal temperature*	0..50°C
Environment conditions	<92% RH, non condensing, no corrosive atmosphere

For safety reasons the battery is switched off below 0°C and above 50°C. This is announced by two recurring alerts acoustic signals. As soon as temperature is in the permitted temperature range the battery is switched on again.

Tab. 5: Recommended Storage Conditions

Short term storage temperature range	-20..+50°C
Long term storage temperature range	-20..+20°C
Environment conditions	<92% RH, non condensing, no corrosive atmosphere.
Minimum required battery charge state for 3 month storage (device must be in off-state!)	20..30% (mimimum lowest segment illuminated)



CONTROL PANEL

Tab. 6: Control panel overview

DC Input Socket (1A)	
Socket to load the solar power bank via 12V power supply. Do not connect a solar panel here!	
Battery Charge Status (2)	
The charging process of the internal li-ion-battery is indicated by a flashing light signal.	
Pushbutton „Check“ (3) / Main Switch	
Press for 2s	Switch on/off solar power bank
Press briefly	Charge state of internal li-ion battery is indicated at bar diagram (2)
Press briefly	Reactivate from energy save mode. Energy save mode is indicated by a flashing main switch (3)
Pushbutton „12V OUT“ (4)	
Press briefly	Switch on/off 12V car plug port. Enlightened pushbutton indicates that car plug port is on .
Pushbutton „5V OUT USB“ (5)	
Press briefly	Switch on/off 5V USB ports. Enlightened pushbutton indicates that USB port is on .
Pushbutton „Battery Check“ (6)	
Press briefly	Switch on/off status indication for external reloadable batteries. Enlightened pushbutton indicates that status indication is on .
Status Indication for External Reloadable Batteries (7)	
Flashing light signal (green)	Charge process ongoing
Permanent green light signal	Charge process completed
Permanent red light signal	Battery defect / wrong battery type / short circuit
Audio Warnings	
Permanent alert sound – 2s break – sound	Excessive load cutoff; output current exceeds 6A
2 sounds – break – 2 sounds	Internal li-ion-battery almost empty
2 sounds – break – 2 sounds	Temperature warning, temperature range 0°C – 50°C is being left, automatic cutoff is anticipated.

DISPOSAL

Please note that the solar power bank SCGII plus contains a lithium ion battery which may be harmful to the environment if not properly recycled or disposed of. Batteries may produce the following potential problems or hazards:

- Pollute the lakes and streams
- Contribute to heavy metals that potentially may leach from solid waste landfills
- Expose the environment and water to acid
- May cause burns or danger to eyes and skin
- Contain strong corrosive acids



The crossed waste container symbol on the product indicates that after usage the solar power bank must not be disposed of at the household garbage.

Instead, please act on the locally applicable legal regulations. In many places designated municipal collecting points are established for recycling and disposal of electronics and batteries.

As a matter of course we take the solar power bank back after usage and attend to proper disposal.

All rights reserved. Modifications and errors reserved.

SCGII plus

