

Blue Smart Charger

IP65

The professional's choice

5
YEAR
WARRANTY

Energy. Anytime. Anywhere.

- Water, dust and chemical resistant
- Seven step smart charge algorithm
- Recovery of fully discharged 'dead' batteries
- Automatic power supply function
- Severe cold performance: down to -30°C
- Several other battery life enhancing features
- Low power mode to charge smaller batteries
- **Li-ion** battery mode
- Setup and configure, readout of voltage and current by **Bluetooth Smart**



Blue Smart IP65 Charger	12 V 4/5/7/10/15 A	24 V 5/8 A
Input voltage range	180-265 VAC	
Efficiency	94%	95%
Standby power consumption	0,5 W	
Charge voltage 'absorption'	Normal: 14,4 V High: 14,7 V Li-ion: 14,2 V	Normal: 28,8 V High: 29,4 V Li-ion: 28,4 V
Charge voltage 'float'	Normal: 13,8 V High: 13,8 V Li-ion: 13,5 V	Normal: 27,6 V High: 27,6 V Li-ion: 27,0 V
Charge voltage 'storage'	Normal: 13,2 V High: 13,2 V Li-ion: 13,5 V	Normal: 26,4 V High: 26,4 V Li-ion: 27,0 V
Charge current	4 / 5 / 7 / 10 / 15 A	5 / 8 A
Low current mode	2 / 2 / 2 / 3 / 4 A	2 / 3 A
Temperature compensation (lead-acid batteries only)	16 mV/°C	32 mV/°C
Can be used as power supply	Yes	
Back current drain	0,7 Ah/month (1 mA)	
Protection	Reverse polarity Output short circuit Over temperature	
Operating temp. range	-30 to +50°C (full rated output up to 30°C) (cables retain flexibility at low temperature)	
Humidity (non-condensing)	Max 95%	
ENCLOSURE		
Battery-connection	Black and red cable of 1,5 meter with 20 A DC connector, clamps and M8 eyelets	
230 V AC-connection	Cable of 1,5 meter with CEE 7/17, BS 1363 plug (UK) or AS/NZS 3112 plug	
Protection category	IP65 (splash and dust proof)	
Weight	0,9 kg	0,9 kg
Dimensions (h x w x d)	12/7: 47x95x190mm Other: 60x105x190mm	24/5: 47x95x190mm Other: 60x105x190mm
STANDARDS		
Safety	EN 60335-1, EN 60335-2-29	
Emission	EN 55014-1, EN 61000-6-3, EN 61000-3-2	
Immunity	EN 55014-2,EN 61000-6-1, EN 61000-6-2, EN 61000-3-3	



www.victronenergy.com
Customer support: sales@victronenergy.com

Included



Clamps

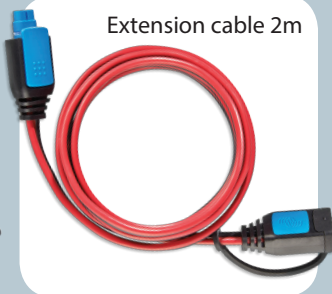


M8 eyelets

Optional



Fused
clamps



Extension cable 2m



Fused
M6 eyelets



Autoplug

Ultra high efficiency “green” battery charger

With up to 95% efficiency, these chargers generate up to four times less heat when compared to the industry standard. And once the battery is fully charged, power consumption reduces to 0,5 Watt, some five to ten times better than the industry standard.

Durable, safe and silent

- Low thermal stress on the electronic components.
- Protection against ingress of dust, water and chemicals.
- Protection against overheating: the output current will reduce as temperature increases up to 60°C, but the charger will not fail.
- The chargers are totally silent: no cooling fan or any other moving parts.

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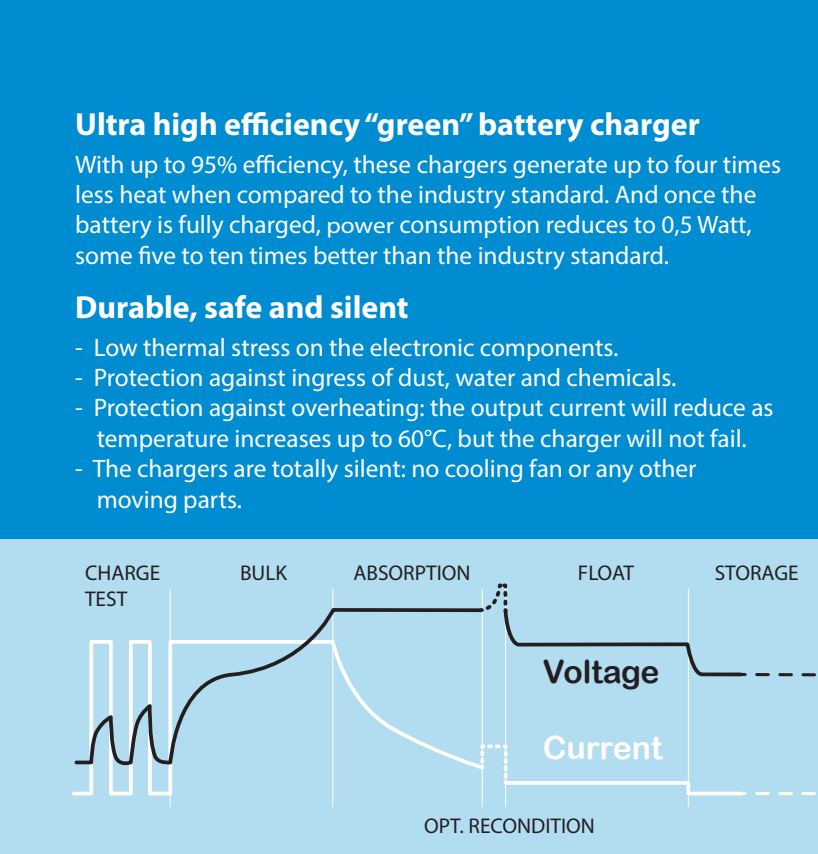
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Reconditioning

A lead-acid battery that has been insufficiently charged or has been left discharged during days or weeks will deteriorate due to sulfation. If caught in time, sulfation can sometimes be partially reversed by charging the battery with low current up to a higher voltage.

Recovery function for fully discharged batteries

Most reverse polarity protected chargers will not recognize, and therefore not recharge a battery which has been discharged to zero or nearly zero Volts. The **Blue Smart Charger** however will attempt to recharge a fully discharged battery with low current and resume normal charging once sufficient voltage has developed across the battery terminals.

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The VictronConnect app

Setup, readout and configure your **Blue Smart IP65 Charger** via your smartphone.

You can display the status of your charger and battery and even control the functions of your charger using the VictronConnect app. On your screen the readout of voltage and current is default available.

Download your app for iOS and Android here at
<https://www.victronenergy.com/live/victronconnect>

A black smartphone is shown vertically, displaying the VictronConnect app. The screen has a blue background with white and orange text. At the top, it says 'Victron near App Store' and '10:25'. Below that is a 'Discovery' screen with a 'mode' selector set to 'li-ion'. There are four radio button options: 'li-ion' (selected), 'recondition', 'high', and 'normal'. Below these is a 'charge current' section with a slider set to '75A'. A large orange bar in the center displays '14.4V' for voltage and '0.0A' for current. At the bottom, there are four icons with labels: 'storage' (battery icon), 'float' (battery icon with a plus sign), 'absorption' (battery icon with a plus sign and a yellow circle), and 'test' (battery icon with a plus sign and a checkmark). The phone is positioned in front of a boat's railing and the ocean under a clear blue sky.

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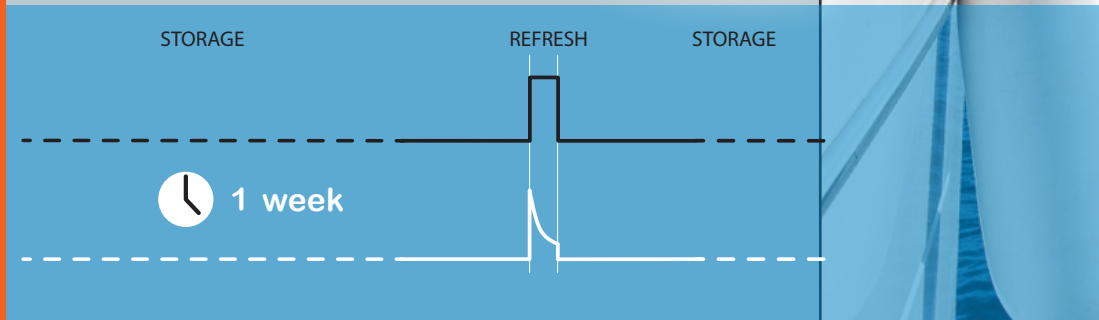
The image shows a black smartphone held in a white boat's railing. The screen displays the VictronConnect app interface. At the top, it says 'Victron near App Store' and '10:25'. Below that is a 'Discovery' screen with a 'mode' button and a list of options: 'li-ion', 'recondition', 'high', and 'normal'. The 'charge current' is set to '75A'. The 'voltage' is '14.4V' and the 'current' is '0.0A'. At the bottom, there are icons for 'storage', 'float', 'absorption', 'bulk', and 'test'. The background of the image is a blue sky and sea.

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The image is a composite. The left portion has a solid blue background with white text. The right portion is a photograph showing the white hull of a boat moving through dark blue water, creating a white wake. The text is organized into sections with bold headings and descriptive paragraphs.

Storage mode: less corrosion of the positive plates

Even the lower float charge voltage that follows the absorption period will cause grid corrosion. It is therefore essential to reduce the charge voltage even further when the battery remains connected to the charger during more than 48 hours.

Temperature compensated charging

The optimal charge voltage of a lead-acid battery varies inversely with temperature. **The Blue Smart IP65 Charger** measures ambient temperature during the test phase and compensates for temperature during the charge process. The temperature is measured again when the charger is in low current mode during float or storage. Special settings for a cold or hot environment are therefore not needed.

Li-ion battery mode

The **Blue Smart Charger** uses a specific charging algorithm for Li-ion (LiFePO_4) batteries, with automatic Li-ion under voltage protection reset.

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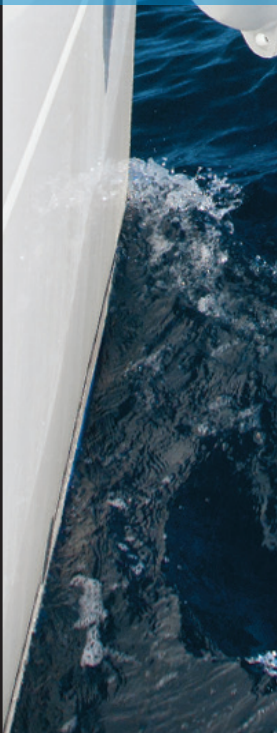
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IP65 - Charger Guide

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Battery size Ah	12V			24V		
	4 & 5 A 20 - 50 Ah	7 A 20 - 70 Ah	10 A 30 - 100 Ah	15 A 50 - 150 Ah	5 A 20 - 50 Ah	8 A 30 - 80 Ah
	12/5	12/7	12/10	12/15	24/5	24/8
CLASSIC						
MODERN						

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	4 & 5 A	7 A	10 A	15 A	5 A	8 A
	20 - 50 Ah	20 - 70 Ah	30 - 100 Ah	50 - 150 Ah	20 - 50 Ah	30 - 80 Ah
Your IP65 Charger »	12/5	12/7	12/10	12/15	24/5	24/8
						
						
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OK

OK

OK

OK