Blue Smart Charger

The professional's choice

YEAR WARRANTY

> 13.80V 10.0A

IP65 12 | 10

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

IP65

• Setup and configure, readout of voltage and current by *Bluetooth Smart*

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Autoplug

MagCode Power Clip 12V

1.5m cable with CEE 7/16 or Cable of 1,5 meter with CE 7/16, CE 7/17, BS 1363 plug (UK) 230V AC-connection AS/NZS 3112 plug or AS/NZS 3112 plug Protection category IP65 (splash and dust proof) IP65 12 V 25 A 24 V 13 A: 1,9 kg 0,4 kg Weight Other: 0,9 kg IP65s 12 V 4/5 A : 45 x 81 x 182 mm IP65 12 V 7 A 24 V 5 A: 47 x 95 x 190 mm IP65 12 V 10/15 A 24 V 8 A: 60 x 105 x 190 mm 38 x 64 x 153 mm Dimensions (h x w x d) IP65 12 V 25 A 24 V 13 A: 75 x 140 x 240 mm 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







Voltage

Current

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.

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 IP65 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:



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 IP65 Charger** uses a specific charging algorithm for Li-ion (LiFePO₄) batteries, with automatic Li-ion under voltage protection reset.

