Blue Smart Charger

IP65
The professional’s choice

- 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

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**Included**

- Clamps
- M8 eyelets

**Optional**

- Fused clamps
- Extension cable 2m
- Fused M6 eyelets
- Autoplug

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**Blue Smart IP65 Charger**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>12 V</th>
<th>5/7/10/15 A</th>
<th>24 V</th>
<th>5/8 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage range</td>
<td>180-265 VAC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Efficiency</td>
<td>94%</td>
<td>95%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standby power consumption</td>
<td>0.5 W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charge voltage 'absorption' Normal</td>
<td>14,4 V</td>
<td>Li-ion: 14,2 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>14,7 V</td>
<td>Li-ion: 14,5 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charge voltage 'trickle' Normal</td>
<td>13,8 V</td>
<td>Li-ion: 13,5 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>13,9 V</td>
<td>Li-ion: 13,7 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charge voltage 'storage' Normal</td>
<td>12,3 V</td>
<td>Li-ion: 12,1 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High</td>
<td>12,4 V</td>
<td>Li-ion: 12,2 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charge current</td>
<td>5 / 7 / 10 / 15 A</td>
<td>5 / 8 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low current mode</td>
<td>2 / 3 / 4 A</td>
<td>2 / 3 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature compensation (lead-acid batteries only)</td>
<td>16 mV/°C</td>
<td>32 mV/°C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Can be used as power supply</td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Back current drain</td>
<td>0,7 Ah/month (1 mA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection</td>
<td>Reverse polarity</td>
<td>Output short circuit</td>
<td>Over temperature</td>
<td></td>
</tr>
<tr>
<td>Operating temp. range</td>
<td>-30 to +50°C (full rated output up to 30°C)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(cables retain flexibility at low temperature)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humidity (non-condensing)</td>
<td>Max 95%</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ENCLOSURE**

- Battery-connection: Black and red cable of 1,5 meter with 20 A DC connector, clamps and M6 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: 0,8 kg | 0,9 kg
- Dimensions (h x w x d): 12/7/47x54x190mm
- Other: 60x105x190mm
- 24/5/47x54x190mm
- Other: 60x105x190mm

**STANDARDS**

- Safety: EN 60335-1, EN 60335-2-29
- Emission: EN 55014-1, EN 61000-3-3, EN 61000-3-2
- Immunity: EN 55014-2, EN 61000-6-1, EN 61000-6-2, EN 61000-3-3

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

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**Blue Smart Charger**
5 YEAR WARRANTY

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The professional’s choice

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
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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.

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 (LiFePO₄) batteries, with automatic Li-ion under voltage protection reset.

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