



Optional









	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	Normal: 28,8 V
		High: 14,7 V	High: 29,4 V
		Li-ion: 14,2 V	Li-ion: 28,4 V
	Charge voltage 'float'	Normal: 13,8 V	Normal: 27,6 V
		High: 13,8 V	High: 27,6 V
		Li-ion: 13,5 V	Li-ion: 27,0 V
	Charge voltage 'storage'	Normal: 13,2 V	Normal: 26,4 V
		High: 13,2 V	High: 26,4 V
		Li-ion: 13,5 V	Li-ion: 27,0 V
	Charge current	4/5/7/10/15 A	5/8A
	Low current mode	2/2/2/3/4A	2/3A
	Temperature compensation	16 mV/°C	32 mV/°C
	(lead-acid batteries only)		
	Can be used as power supply	Yes	
	Back current drain	0,7 Ah/month (1 mA)	
	Protection	Reverse polarity Output short circ Over temperature	
	Operating temp. range	-30 to +50°C (full rated output up to 30°C)	
	Operating temp. range	(cables retain flexibil	ity at low temperature)
	Humidity (non-condensing)	Max 95%	
	ENCLOSURE		
	D-44	Black and red cable of 1,5 meter with	
	Battery-connection	20 A DC connector, clamps and M8 eyelets	
	230 V AC-connection	Cable of 1,5 meter with	
	230 V AC-Connection	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	24/5: 47x95x190mm
		Other: 60x105x190mm	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

Blue Smart Charger
The professional's choice





- 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**





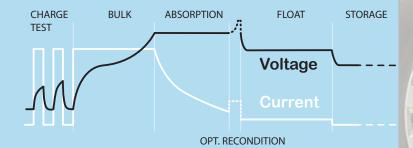


Ultra high efficiency "green" battery charger

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 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.

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



STORAGE REFRESH **STORAGE**



week

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

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