

Blue Power IP65 Charger: ultra efficient

Limited warranty: 5 years

www.victronenergy.com



Blue Power IP65 Battery Charger
12V 7A
24V 5A



Blue Power IP65 Battery Charger
12V 10A
12V 15A
24V 8A

The highest efficiency ever!

Setting a new industry standard: with up to 95% efficiency, these chargers waste **three to four times less heat**. And once the battery is fully charged, power consumption reduces to less than a Watt, **five to ten times better** than the industry standard.

Adaptive charge algorithm: charge/test – bulk – absorption – recondition – float – storage

The Blue Power charger features a microprocessor controlled 'adaptive' battery management. The 'adaptive' feature will automatically optimise the charging process relative to the way the battery is being used.

- Charge/test**
Tests if the battery can accept charge
- Bulk**
Charges the battery with maximum current until absorption voltage is reached (battery 80% charged)
- Absorption**
Charges the battery at constant voltage and with decreasing current until it is fully charged
- Recondition**
Optional reconditioning for deeply discharged and sulfated batteries: charges the battery at increased voltage with reduced current.
- Float**
Keeps the battery at constant voltage and fully charged
- Storage**
Keeps the battery at reduced constant voltage to reduce gassing and corrosion of the positive plates. Refreshes the battery every week.

Also charges Li-ion (LiFePO₄) batteries

LiFePO₄ batteries are charged with a simple bulk – absorption – float algorithm.

Internal temperature sensor

Measures ambient temperature during the charge/test phase and compensates for temperature during absorption. Measures temperature again when in low current mode during float or storage.

Totally silent

No fan.

Protected against overheating

Output current will reduce as temperature increases up to 60°C, but the charger will not fail.

Reverse polarity protected

No sparks, short circuit proof and reverse polarity protected.

Will start charging even when the battery has been discharged to zero volt.

Learn more about batteries and battery charging

To learn more about batteries and charging batteries, please refer to our book 'Energy Unlimited' (available free of charge from Victron Energy and downloadable from www.victronenergy.com).



Blue Power Charger IP65	12 V 7/10/15 A	24 V 5/8 A
Input voltage range	180-265 VAC	
Max efficiency	94%	95%
Standby power consumption	0,5 W	
Charge voltage 'absorption'	Normal: 14,4 V High: 14,6 V Li-ion: 14,2 V	Normal: 28,8 V High: 29,2 V Li-ion: 28,4 V
Charge voltage 'float'	Normal: 13,8 V High: 13,8 V Li-ion: 13,35 V	Normal: 27,6 V High: 27,6 V Li-ion: 26,7 V
Charge voltage 'storage'	Normal: 13,2 V High: 13,8 V Li-ion: n. a.	Normal: 26,4 V High: 26,4 V Li-ion: n. a.
Charge current	7 / 10 / 15 A	5 / 8 A
Can be used as power supply	Yes	
Protection	Reverse polarity	Output short circuit Over temperature
Operating temp. range	-20 to +50°C (full rated output up to 30°C)	
Humidity (non condensing)	Max 95 %	
ENCLOSURE		
Battery-connection	Black and red cable of 1,5 meter	
230 V AC-connection	Cable of 1,5 meter with CEE 7/7, BS 1363 plug (UK) or AS/NZS 3112 plug	
Protection category	IP65 (splash and dust proof)	
Weight	12/7: 0,73 kg Other: 0,9 kg	24/5: 0,73 kg Other: 0,9 kg
Dimensions (h x w x d)	12/7: 47x95x190 mm Other models: 60x105x190 mm	24/5: 47x95x190 mm Other models: 60x105x190 mm
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	