

# blue power charger

IP65

The professional's choice

5  
YEAR  
WARRANTY



*Energy. Anytime. Anywhere.*

- **The highest efficiency ever!**
- Seven step smart charge algorithm
- Water resistant
- Automatic compensation for high or low temperature
- Fully discharged "dead" battery recovery function
- Several other battery life enhancing features
- Power supply function
- **Li-ion** battery mode



Blue Power Charger IP65	12 V 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: 14,6 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: 13,5 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	7 / 10 / 15 A	5 / 8 A
Minimum battery capacity	24 / 30 / 45 Ah	16 / 24 Ah
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	-20 to +50°C (full rated output up to 30°C)	
Humidity (non condensing)	Max 95 %	
<b>ENCLOSURE</b>		
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	0,9 kg	0,9 kg
Dimensions (h x w x d)	12/7: 47x95x190mm Other: 60x105x190mm	24/5: 47x95x190mm 24/8: 60x105x190mm
<b>STANDARDS</b>		
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	



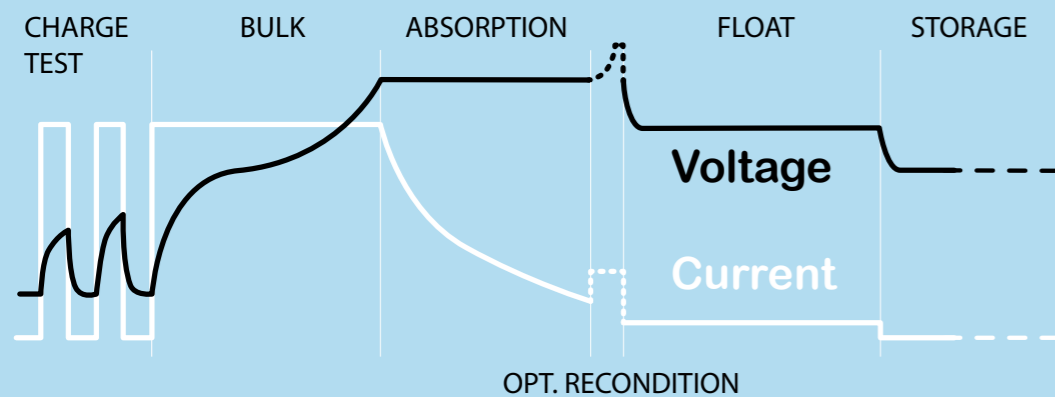
www.victronenergy.com  
Customer support: service@victronenergy.com



Battery size Ah	Model		
	12 / 7 24 / 5	12 / 10 24 / 8	12 / 15
20 - 50	●	●	●
50 - 70	●	●	●
70 - 90	●	●	●
90 - 150	●	●	●

### Quick selection guide

- Recommended
- Ok
- Not recommended



### 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 Power 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.

### 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.

STORAGE REFRESH STORAGE

🕒 1 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 Power 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 Power Charger** uses a specific charging algorithm for Li-ion (LiFePO<sub>4</sub>) batteries, with automatic Li-ion under voltage protection reset.