

Intelligent multi-stage battery chargers



The **Victron Blue Smart** charger range is a range of intelligent multi-stage battery chargers, specifically engineered to optimise each recharge cycle and charge maintenance over extended periods.

The **Blue Smart IP22 Charger** is a wireless solution to monitor voltage and current. The wireless feature allows you to change settings and update your charger with new features when they become available. The **Blue Smart IP22 Charger** can be used on devices in your workshop and on motor vehicles, such as classic cars, motorbikes, boats and caravans.

With up to 94% efficiency, these chargers generate up to four times less heat when compared to the industry standard. Once the battery is fully charged, power consumption reduces to 0.5 watts, five to ten times better than the industry standard.

The **Blue Smart 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.

The storage mode kicks in whenever the battery has not been subjected to discharge during 24 hours. In the storage mode, float voltage is reduced to 2.2 V/cell (13.2 V for

a 12 V battery) to minimise gassing and corrosion of the positive plates. Once a week the voltage is raised back to the absorption level to 'equalise' the battery. This feature prevents stratification of the electrolyte and sulfation, a major cause of early battery failure.

The **Blue Smart Charger** can also charge Li-ion (LiFePO4) batteries with a simple bulk absorption float algorithm.

When in NIGHT or LOW mode, the output current is reduced to max. 50% of the nominal output, making the charger totally noiseless. The NIGHT mode automatically ends after 8 hours. The LOW mode can be ended manually.

Output current will reduce as temperature increases up to 50 °C, but the **Blue Smart Charger** will not fail.

Features & Benefits

- Built-in bluetooth
- High efficiency
- Adaptive 6-stage charge algorithm (test - bulk - absorption - recondition - float - storage)
- Less maintenance and aging when battery is not in use
- Also charges Li-ion (LiFePO4) batteries
- Night and low mode settings
- Overheat protection
- Eleven LED status indicators
 - Charge algorithm: test - bulk - absorption - recondition - float - storage - ready
 - Mode button: Normal (14.4 V) - High (14.7 V) - Recondition - Li-ion

When the Blue Smart Charger is powered-up it will be discoverable using the VictronConnect app. on your device. The 'home' page shows information about the battery voltage, charge current, and where your battery is in the charging cycle.

Blue Smart IP22 Charger	12 V, 1 output 15 / 20 / 30 A	12 V, 3 outputs 15 / 20 / 30 A	24 V, 1 output 8 / 12 / 16 A	24 V, 3 outputs 16 A
Input Voltage Range	180 – 265 Vac		180 – 265 Vac	
Charge Current, Normal Mode	15 / 20 / 30 A		8 / 12 / 16 A	
Charge Current, NIGHT or LOW	7.5 / 10 / 15 A		4 / 6 / 8 A	
Efficiency	93%		94%	
No Load Power Consumption	0.5 w		0.5 w	
Frequency	45 – 65 Hz		45 – 65 Hz	
Number of Outputs	1	3	1	3
Charge Voltage 'Absorption'	Normal: 14.4 V High: 14.7 V Li-ion: 14.2 V		Normal: 28.8 V High: 29.4 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 Algorithm	6-stage adaptive			
Can be Used as Power Supply	Yes			
Protection	Battery reverse polarity (fuse), output short circuit, over temperature			
Operating Temp. Range	-20 °C to +50 °C			
Humidity (Non-Condensing)	Max. 98%			
ENCLOSURE				
Material & Colour	Aluminium (blue RAL 5012)			
Battery Connection	Screw terminals 13 mm ² / AWG6			
230 Vac Connection	Cable of 1.5 meter with CEE 7/7 plug, BS 1363 plug (UK) or AS/NZS 3112 plug (AU/NZ)			
Protection Category	IP22			
Weight	1.3 kg			
Dimensions (h x w x d)	235 x 108 x 65 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			
Automotive	E4-10R		E4-10R	

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