8. Technical specifications

Blue Smart IP22 Charger	12V 15 / 20 / 30A	24V 8 / 12 / 16A
Input voltage and frequency range	180 - 265VAC | 45 - 65Hz	
Efficiency	93%	94%
Standby power consumption	0.5W	
Charge voltage - Absorption	Normal: 14.4V High: 14.7V Li-ion: 14.2V	Normal: 28.8V High: 29.4V Li-ion: 28,4V
Charge voltage - Float	Normal: 13.8V High: 13.8V Li-ion: 13.5V	Normal: 27.6V High: 27.6V Li-ion: 27.0V
Charge voltage - Storage	Normal: 13.2V High: 13.2V Li-ion: 13.5V	Normal: 26.4V High: 26.4V Li-ion: 27.0V
Max output current - Normal mode	15 / 20 / 30A	8 / 12 / 16A
Max output current - Low current mode	7.5 / 10 / 15A	4 / 6 / 8A
Max battery capacity (recommended)	150 / 200 / 300Ah	80 / 120 / 160Ah
Min battery capacity - Normal mode	Lead-acid: 50 / 67 / 100Ah Lithium: 30 / 40 / 60Ah	Lead-acid: 27 / 40 / 53Ah Lithium: 16 / 24 / 32Ah
Min battery capacity - Low current mode	Lead-acid: 25 / 33 / 50Ah Lithium: 15 / 20 / 30Ah	Lead-acid: 13 / 20 / 27Ah Lithium: 8 / 12 / 16Ah
Temperature compensation (lead-acid only)	16mV/°C	32mV/°C
Charge algorithm	6-stage adaptive	
Power supply mode	Yes	
Back current drain	0.4Ah/month (0.6mA)	
Protection	Reverse polarity (fuse), output short circuit, over temperature	
Cooling	Low rpm (silent) fan (12/15 and 24/08 are without fan)	
Operating temperature	-20 to +50°C (full rated output up to 40°C)	
Humidity (non condensing)	Max 95%	
Enclosure		
Material & Colour	Aluminium (blue RAL 5012)	
Battery connection	Screw terminals 16 mm² / AWG6	
AC connection	1.5m cable with CEE 7/7, BS 1363 or AS/NZS 3112 plug	
Protection category	IP22 (indoor use)	
Weight	1.3kg	
Dimensions (h x w x d)	235 x 108 x 65mm	
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	