8. Technical specifications

Blue Smart IP67 Charger	**12V 7 / 13 / 17 / 25A**	**24V 5 / 8 / 12A**
Input voltage and frequency range	180 - 265VAC | 45 - 65Hz	
Efficiency	93% / 93% / 95% / 95%	94% / 96% / 96%
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	7 / 13 / 17 / 25A	5 / 8 / 12A
Max output current - Low current mode	2 / 4 / 6 / 10A	2 / 3 / 4A
Max battery capacity (recommended)	70 / 130 / 170 / 250Ah	50 / 80 /120Ah
Min battery capacity - Normal mode	Lead-acid: 23 / 43 / 57 / 83Ah Lithium: 14 / 26 / 34 / 50Ah	Lead-acid: 17 / 27 / 40Ah Lithium: 10 / 16 / 24Ah
Min battery capacity - Low current mode	Lead acid: 7 / 13 / 20 / 33Ah Lithium: 4 / 8 / 12 / 20Ah	Lead acid: 7 / 10 / 13 Ah Lithium: 4 / 6 / 8 Ah
Temperature compensation (lead-acid only)	16mV/°C	32mV/°C
Charge algorithm	6-stage adaptive	
Power supply mode	Yes	
Back current drain	0.7Ah/month (1mA)	
Protection	Reverse polarity (fuse), output short circuit, over temperature	
DC fuse - Internal (not replaceable)	n.a. / n.a. / 25 / 30A	n.a. / 15 / 20A
DC fuse - ATO blade in DC cable	20A (12/25: no fuse)	20 / 10 / 15A
Operating temperature	-20 to +60°C (full rated output up to 40°C)	
Humidity	Up to 100%	
Start interrupt option (12/25 and 24/12)	Short circuit protected, 0.5A limit, max 1V lower than output voltage	
Enclosure		
Material & Colour	Aluminium (blue RAL 5012)	
Battery connection	1.5 meter red and black cable with M8 ring terminals 12/7, 12/13, 24/5 - 12 AWG | 12/17, 12/25, 24/8, 24/12 - 9 AWG	
AC connection	1.5m cable with CEE 7/7, BS 1363 or AS/NZS 3112 plug	
Protection category	IP67	
Weight	12/7, 12/13, 24/5: 1.8kg | 12/17, 12/25, 24/8, 24/12: 2.4kg	
Dimensions (h x w x d)	12/7, 12/13, 24/5: 85 x 211 x 60mm 12/17, 12/25, 24/8, 24/12: 99 x 219 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	