

Charging regulator

BlueSolar MPPT 150/100

Product code: SCC115110420

100A

Rated current

MPPT

Type



FUNCTIONS

- Ultraspeed Maximum Power Point Tracking (MPPT) - improves energy harvesting by up to 30% compared to PWM charge controllers and by up to 10% compared to slower MPPT controllers, especially under varying light conditions.
- Advanced Maximum Power Point Detection in partial shading - the innovative SmartSolar algorithm maximizes energy capture by identifying the optimal MPP in challenging conditions.
- Exceptional conversion efficiency, achieving over 98% efficiency without the need for a cooling fan, which increases energy efficiency.
- Fully programmable charging algorithm with eight pre-programmed charging modes, easily selectable via a rotary switch.
- Built-in Bluetooth Smart module allows wireless configuration, monitoring, and system synchronization, as well as access to additional features like Smart Battery Sense or SmartShunt.

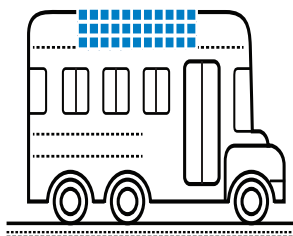
4sun®

TECHNICAL DATA

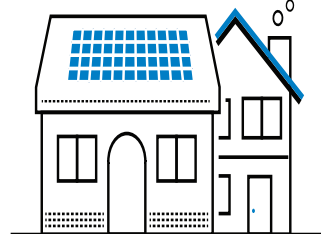
INDEX	SCC115110420
MODEL	BlueSolar MPPT 150/100
Nominal system voltage	12/24/48 VDC Auto
Battery type	Liq., Gel, Acid, AGM
Maximum PV input power [W]	1450/2900/4350/5800
Rated charging current [A]	100
Rated discharge current [A]	100
Maximum PV circuit voltage [V]	145
Maximum continuous load current [A]	100
Power supply connections [mm ²]	35
Charging algorithm	adaptive
Self-consumption	≤35mA(12V); ≤20mA(48V)
Temperature compensation	16mV/-32mV/-64mV/°C
Protection	IP43, IP22
Warranty	2 years
Efficiency	98%
Dimensions (L x W x H) [mm]	216x295x103
Weight (g)	4500
Temperature range	-30°C~+60°C

APPLICATION

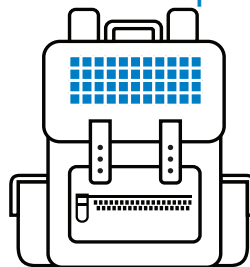
Solar Car



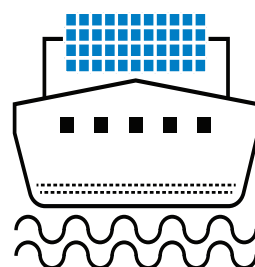
Solar Home



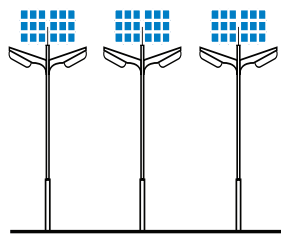
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

