

Charging regulator

BlueSolar MPPT 100/50

Product code: SCC020050200

50A

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.
- Battery state monitoring and dynamic load disconnection adjustment - extends battery life by ensuring regular full charging through dynamic adjustment of the load disconnection level.
- Programmable battery charging algorithm - allows customization of the charging process to meet specific system needs, which can be configured using dedicated software.
- System monitoring and management via smartphone and other Bluetooth-enabled devices - provides convenience in accessing and controlling the system remotely.
- Automatic load disconnection - protects the battery from damage by disconnecting the load when the battery voltage drops below the set level.

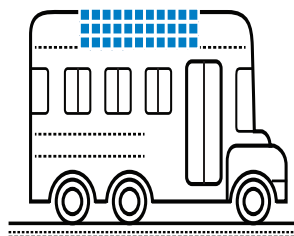
4sun®

TECHNICAL DATA

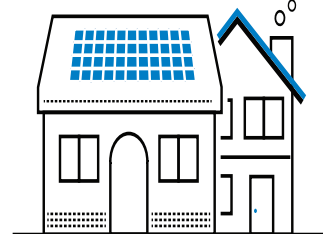
INDEX	SCC020050200
MODEL	BlueSolar MPPT 100/50
Nominal system voltage	12/24 VDC Auto
Battery type	Liq., Gel, Acid, AGM
Maximum PV input power [W]	700/1400
Rated charging current [A]	50
Rated discharge current [A]	50
Maximum PV circuit voltage [V]	100
Maximum continuous load current [A]	50
Power supply connections [mm ²]	13
Charging algorithm	adaptive
Self-consumption	10mA
Temperature compensation	-16mV/°C
Protection	IP43, IP22
Warranty	2 years
Efficiency	98%
Dimensions (L x W x H) [mm]	130x186x70
Weight (g)	1250
Temperature range	-30°C~+60°C

APPLICATION

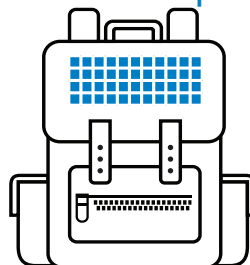
Solar Car



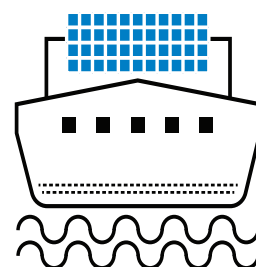
Solar Home



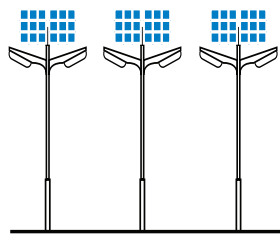
Solar Backpack



Solar Boat



Solar Street Light



Solar Power Generator

