

# Charging regulator

## BlueSolar MPPT 75/10

Product code: SCC010010050R

10A

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.

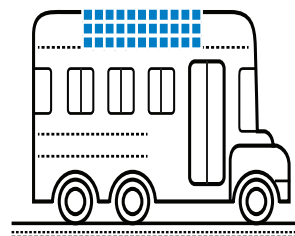
# 4sun®

### TECHNICAL DATA

INDEX	SCC010010050R
MODEL	BlueSolar MPPT 75/10
Nominal system voltage	12/24VDC Auto
Battery type	Liq., Gel, Acid, AGM
Maximum PV input power [W]	145/290
Rated charging current [A]	10
Rated discharge current [A]	10
Maximum PV circuit voltage [V]	75
Maximum continuous load current [A]	15
Power supply connections [mm <sup>2</sup> ]	6
Charging algorithm	adaptive
Self-consumption	25mA(12V); 15mA(24V)
Temperature compensation	-16mV/°C
Protection	IP43, IP22
Warranty	2 years
Efficiency	98%
Dimensions (L x W x H) [mm]	100x 113x40
Weight (g)	500
Temperature range	-30°C~+60°C

### APPLICATION

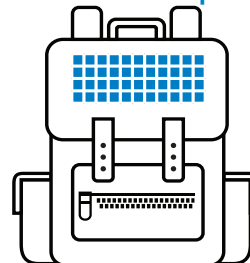
#### Solar Car



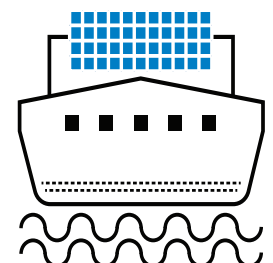
#### Solar Home



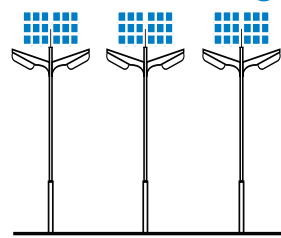
#### Solar Backpack



#### Solar Boat



#### Solar Street Light



#### Solar Power Generator

