

# Charging regulator

## MT1050-EU 10A

Product code: R0004

**10A**  
Rated current

**MPPT**  
Type



### FUNCTIONS

- Maximum Power Point Tracking (MPPT) with 99.9% tracking efficiency and up to 97% conversion efficiency, enhancing charging efficiency.
- Real-time display of operational data and controller status in digital, graphical, and textual formats, making system monitoring easier.
- The ability to choose between AGM, gel, or liquid batteries, increasing system flexibility and compatibility.
- Two 5V/2A USB ports enable external device charging, enhancing the product's functionality.
- The device supports MPPT, boost, equalization, and float charging modes, ensuring optimal battery charging and a fully automatic electronic protection function.

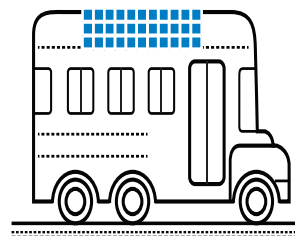
**4sun**®

### TECHNICAL DATA

INDEX	R0004
MODEL	MT1050-EU 10A
Nominal system voltage	12 VDC
Battery type	Liq., Gel, Acid, AGM
Maximum battery voltage [V]	20
Rated charging current [A]	10
Rated discharge current [A]	10
Maximum PV circuit voltage [V]	45
Charging voltage [V]	14,5
Low-voltage cut-off voltage [V]	11,2
Grounding	common negative
Self-consumption	≤8mA (12V)
Temperature compensation	-4,17mV/K per cell
Protection	IP32
Warranty	2 years
Maximum altitude [m]	4000
Dimensions (L x W x H) [mm]	189x96x53
Weight (g)	420
Temperature range	-20°C~+50°C

### APPLICATION

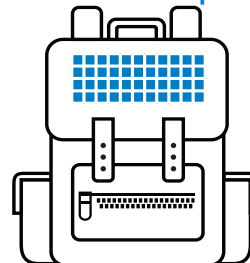
#### Solar Car



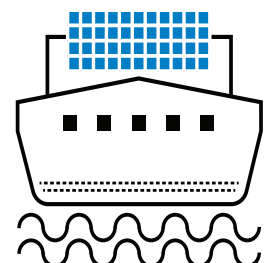
#### Solar Home



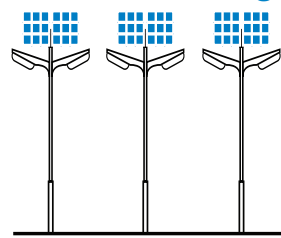
#### Solar Backpack



#### Solar Boat



#### Solar Street Light



#### Solar Power Generator

