

Steca Solarix MPPT

3020, 5020

Steca Solarix MPPT are solar charge controllers with maximum power point tracking. These are suitable for all common module technologies and are optimally suited for solar systems with module voltages higher than the battery voltage. In particular, such inexpensive PV modules that are used for grid-connected systems can also be used off-grid.

Steca's efficient MPP tracking algorithm always provides the maximum usable power of the module, significantly increasing energy yield, especially in poor weather conditions (cloud cover, winter, diffused light). The Steca Solarix MPPT charge controllers combine state-of-the-art charging technology with high efficiency, professional battery care with numerous programming options, modern design, excellent protection functions and an intuitive LC display with menu guidance.

For remote monitoring, KATEK Memmingen provides the cost-efficient item PA WiFi1 as an optional accessory.




Product features

- Maximum Power Point Tracker (MPP tracker)
- Voltage and current regulation
- Multistage charging technology (also suitable for lithium batteries)
- Automatic load reconnection
- Temperature compensation
- Positive earthing of one or negative earthing of several terminals possible
- Monthly equalisation charge

Electronic protection functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of module, load and battery
- Reverse polarity protection by internal fuse
- Automatic electronic fuse
- Short circuit protection
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Load disconnection on battery overvoltage

Displays

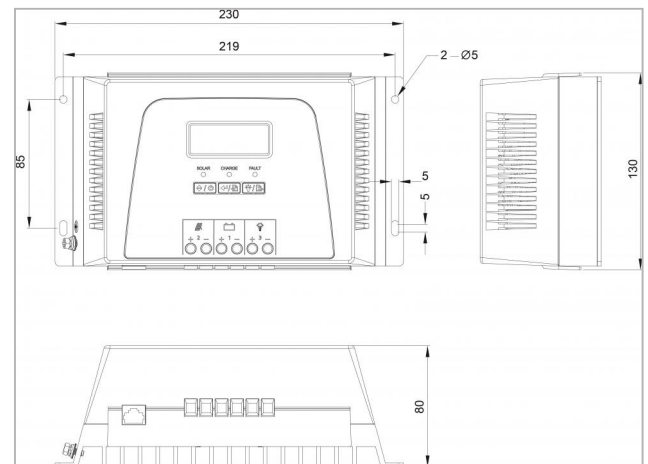
- Multifunction graphical LC display with backlighting

Operation

- Simple menu-driven operation

Interfaces

- Open Steca RS-232 interface



	Solarix MPPT 3020	Solarix MPPT 5020
Characterisation of the operating performance		
System voltage	12 V (24 V)	12 / 24 / 48 V
Nominal power	450 W (900 W)	750 W / 1500 W / 3000 W
DC input side		
Open circuit voltage solar module (at minimum operating temperature)	17 V ... 100 V (34 V ... 100 V)	17 V / 34 V / 68 V < U _{modul} < 150 V
Module current	30 A	50 A
DC output side		
Load current	20 A	
Reconnection voltage (LVR)	12.5 V (25 V)	12.5 V / 25 V / 50 V
Deep discharge protection (LVD)	11.5 V (23 V)	11.5 V / 23 V / 46 V
Battery side		
Charge current	30 A	50 A
End-of-charge voltage	14.1 V (28.2 V)	14.1 V / 28.2 V / 56.4 V
Boost charge voltage	14.4 V (28.8 V)	14.4 V / 28.8 V / 57.6 V
Equalisation charge	15 V (30 V)	15 V / 30 V / 60 V
Set battery type	liquid	
Operating conditions		
Ambient temperature	0 °C ... +55 °C	
Fitting and construction		
Terminal (fine / single wire)	16 mm ² - AWG 6	35 mm ² - AWG 2
Degree of protection	IP 20	
Dimensions (X x Y x Z)	230 x 130 x 80 mm	250 x 230 x 85 mm
Weight	1370 g	3140 g

- Technical data at 25 °C / 77 °F
- Inverters must not be connected to the load output.
- caution_open_circuit_voltage_100