

MPPT 100/20-1

Maximum Power Point Tracker



- Maximum Power Point Tracking technology increases the efficiency of your PV system
- Less expensive solar-panels for grid-feed-in systems can now be used for 12/24 V off-grid systems
- Electronic protection (reverse polarity, over-current, short-circuit, over-temperature)
- High efficiency
- DIN Rail compatible
- Negative ground

With innovative maximum-power-tracking technology, Phocos' MPP-Tracker ensures maximum performance from your solar array at all times and in all weather conditions. The MPPT can yield an energy gain from your PV array (up to 30%).

MPPT includes a sweep-function which runs through the whole solar-panel voltage range once every 2h to find the point of the absolute maximum power output.

The temperature-compensated three-stage I-U curve charge regulation algorithm significantly extends the lifespan of your battery.

The possibility to use less expensive grid-feed-in solar-panels with up to 95 V open circuit voltage for 12 V or 24 V stand-alone systems will significantly reduce the cost of the total system.

TYPE	MPPT 100/20-1
Nominal voltage	12 V / 24 V, automatic recognition
Max. solar input voltage Voc	95 V
Max. PV input power	300 W@12 V, 600 W@24 V
Max. battery charge current	20 A
Power conversion efficiency	up to 97 %
Standby power consumption	< 30 mW at 12 V system voltage (< 2 mA) < 80 mW at 24 V system voltage (< 3 mA)
Temperature compensation	-4 mV/cell.K
Max. wire size	35 mm ²
Dimensions	185 x 150 x 115 mm
Weight	1.6 kg
Temperature range	-40 to +50 °C
Type of protection	IP22

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