

MPPT 100/20

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 12/24V 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 (with the average gain being 10%-25%).

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.

When a Master Controller is used, up to 16 MPPTs can be operated in parallel. This will enable you to increase your system capacity substantially. In addition, the charge regulation of each MPPT unit can be controlled by a master controller via data bus.

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 95V open circuit voltage for 12V or 24V stand-alone systems will significantly reduce the cost of the total system.

TYPE	MPPT 100/20-1
Nominal voltage	12V / 24V, automatic recognition
Max. solar input voltage Voc	95V
Max. PV input power	300W@12V, 600W@24V
Max. battery charge current	20A
Power conversion efficiency	up to 97 %
Standby power consumption	< 30mW at 12V system voltage (< 2mA) < 80mW at 24V system voltage (< 3mA)
Temperature compensation	-4 mV/cell.K
Max. wire size	32mm ²
Dimensions	185 x 150 x 115mm
Weight	1.6kg
Temperature range	-40 to +50° C
Type of protection	IP22

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