

MPPT 100/30 (30 A)

Maximum Power Point Tracker



- Maximum Power Point Tracking technology increases the efficiency of your PV system
- Less expensive solar-panels for gridfeed-in systems can now be used for 12/24 V off-grid systems
- Electronic protection (reverse polarity, over-current, short-circuit, overtemperature)
- 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%). When a Central Unit is used, up to 8 MPPTs can be used together in one system. The charge regulation is then done via data bus by the Central Unit. This will enable

you to increase your system capacity substantially.

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 solarpanels 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 100/30
Nominal voltage	12/24 V, automatic recognition
Nominal battery charge current	30 A
Max. PV voltage	95 V
Min. PV voltage	17/34 V
Max. PV input power	450 W@12 V, 900 W@24 V
Max. battery charge current	33 A
Power conversion efficiency	up to 98%
Standby power consumption	< 30 mW at 12 V system voltage (< 2 mA); < 80 mW at 24 V system voltage (< 3 mA)
Temperature compensation	-24 mV/K (12 V); -48 mV/K (24 V)
Max. wire size	35 mm ²
Dimensions (W x H x D)	185 x 150 x 115 mm
Weight	1.6 kg
Temperature range	-40 to +50 °C
Type of protection	IP22
Float charge	13.8/27.6 V (25 °C)
Main charge	14.4 V/28.8 V (25 °C), 0.5 h (daily)
Boost charge activation	14.4/28.8 V (25 °C), 2 h battery voltage < 12.3/24.6 V
Equalization activation	14,8/29,6 V (25 °C), 2 h battery voltage < 12.1/24.2 V
Max. battery voltage	32 V
Grounding	Negative grounding
Battery type	Lead (GEL, AGM, float)

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