

MPPT 100/40 (40 A)

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, overcurrent, short-circuit, overtemperature)
- High efficiency
- DIN rail compatible
- Negative grounding

With innovative maximum power point 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 operated 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 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 100/40
System voltage	12/24 V, auto recognition
Nominal charge current	40 A
Max. battery charge current	41 A
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 charge / activation	14.8/29.6 V (25 °C), 2 h / battery voltage < 12.1/24.2 V
Max. battery voltage	32 V
Max. PV voltage	95 V
Min. PV voltage	17/34 V
Max. PV input power	600 W@12 V, 1200 W@24 V
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
Power conversion efficiency	Up to 98%
Grounding	Negative grounded
Ambient temperature	-40 °C to +45 °C
Battery type	Lead acid (GEL, AGM, flooded)
Max. wire cross section	32 mm ²
Dimensions (W x H x D)	185 x 150 x 115 mm
Weight	1.6 kg
Type of protection	IP20

Datasheet_MPPT 100/30_1/1_e_2015-11-26_Subject to change without notice