

# MPPT 100/30

## 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%).

When a Central Unit is used, up to 16 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 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 100/30
Nominal voltage	12V /24 V, automatic recognition
Nominal battery charge current	30 A
Max. solar input voltage Voc	95 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	-4 mV/cell.K
Max. wire size	35 mm <sup>2</sup>
Dimensions	185 x 150 x 115 mm
Weight	1.6 kg
Temperature range	-40 to +50 °C
Type of protection	IP22

Compatible with the Modular Power Management

- Phocos AG, Germany  
info@phocos.com
- Phocos China Ltd., China  
Info-china@phocos.com
- Phocos India Solar Pvt. Ltd., India  
Info-india@phocos.com
- Phocos Latin America S.R.L., Bolivia  
Info-latinamerica@phocos.com
- Phocos Rep. Office Australia, Australia  
Info-australia@phocos.com
- Phocos Rep. Office Brazil, Brazil  
Info-brazil@phocos.com
- Phocos Rep. Office Eastern Africa, Kenya  
Info-easternafrica@phocos.com
- Phocos Eastern Europe S.R.L., Romania  
Info-easterneurope@phocos.com
- Phocos SEA Pte Ltd, Singapore  
Info-sea@phocos.com
- Phocos Rep. Office South Africa  
Info-sadc@phocos.com
- Phocos Tunisia  
Info-maghreb@phocos.com
- Phocos USA  
Info-usa@phocos.com