

# SOLAR CHARGER VOLT POLSKA

## SOL MPPT 20A (100V) 12/24V+LCD+BT

INDEKS: 3IPSPMPT21

EAN: 5904100450541

The SOL MPPT 20A (100V) 12/24V + LCD + BT solar controller is designed to charge batteries from a connected set of solar panels. This modern and multifunctional device charges based on the latest and most efficient MPPT charging technology. By optimizing the charging process, the regulator effectively extends the battery life compared to standard PWM regulators.

### The most important features include:

modern MPPT (Max Power Point Tracking) maximum operating point tracking technology, conversion/tracking efficiency > 99.9%, clear LCD display showing the most important operating parameters, automatic recognition of the voltage of the connected 12/24V batteries, flexible system battery selection: liquid, gel, AGM and lithium, four stages battery charging process: MPPT, boost, equalization, float.

**BLUETOOTH wireless communication** - remote control and viewing of the regulator's operating parameters.

Settings of all LiFePO4 battery parameters are available only from the smartphone application.

### Main features:

Max charging current	20A
Battery voltage	12V/24V
Max voltage on PV Vmp	100V
Max current on PV Imp	20A
Self consumption	≤12mA (12/24V)
Battery type	AGM, GEL
Boost voltage	14~14.8/28~29.6V (25°C)
Equalization voltage	14~15.0/28~30V (25°C)
Float voltage	13~14.5/26~29V (25°C)
Low voltage disconnect	10.8~11.8V/21.6~23.6V
Reconnect voltage	11.4~12.8V/22.8~25.6V
Overcharge protect	15,8/31,3V
Temp compensation	(-) 4.17mV/K per cell (Boost, Equalization), <b>-3.33mV/K per cell (Float)</b>
Dimensions	136,6x136,6x67,1mm
Weight	830g
Protection degree	IP 32
Gross dimensions/weight	159x178x78mm/1000g
Multipack dimensions/weight	500x380x250mm/18,9kg



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When using the regulator to charge batteries, remember to select the appropriate battery type in the regulator settings.

Failure to use the appropriate charging mode for the battery may result in premature battery wear, damage and loss of battery warranty. Additionally, to photovoltaic installations we recommend using batteries best dedicated to this e.g. GEL VPRO SOLAR, DEEP CYCLE VPRO SOLAR or lithium LiFePO4.

We advise against using maintenance-free AGM batteries (e.g. AGM, AGM OPTI, AGM VPRO series) in photovoltaic installations (cyclic charging systems). Such batteries are best for float use (UPS emergency power supply systems).

