SOL MPPT 20A (100V) 12/24V SOLAR CHARGE CONTROLLER + LCD + BLUETOOTH

REGULAR RANGE

PRODUCT CODE
3IPSMPPT20

EAN
5903760240127

CATEGORY
Photovoltaic panels and accessories

SUBCATEGORY
Solar charge controllers MPPT

PRODUCT PAGE
voltpolska.pl/produkty/sol-mppt-20a-regulator-solarny



ABOUT THE PRODUCT

SOL MPPT 20A is a solar charge controller designed to charge batteries from a photovoltaic panel array. It uses MPPT (Max Power Point Tracking) technology, with conversion and tracking efficiency of > 99,9%. The device automatically detects the battery voltage 12V / 24V (Auto) and supports gel, AGM, flooded-electrolyte and lithium batteries.

The controller is equipped with a clear LCD display, wireless communication and operation via a dedicated smartphone application. The available applications are Solarlife and Solarlife PRO for IOS, and SolarLifeBT and Solarlife PRO for Android. Settings for all LiFePO4 battery parameters are available exclusively through the application.

The temperature sensor enables automatic temperature compensation. The four-stage charging process includes MPPT, BOOST (pulse), Equalization and Float. The controller also offers control modes for the connected load: always-on, dusk-to-dawn, night and manual.

The device features automatic short-circuit, temperature and overload protection. Before starting operation, select the appropriate battery type in the controller settings. An incorrect charging mode may lead to faster wear or damage to the battery and loss of its warranty.

TECHNICAL SPECIFICATIONS

System and Battery Parameters	**System voltage**	12V / 24V (Auto)
	Max. charging current	20A
	Battery type	Gel, AGM, Flooded, Lithium (default: Gel)
	Max. battery voltage	35V
	Charging voltage MPPT	< 14.5V / 29.0V (at 25°C)
	BOOST voltage (at 25°C)	14.0~14.8V / 28.0~29.6V (default: 14.5V / 29.0V)
	Equalization voltage (at 25°C)	14.0~15.0V / 28.0~30.0V (default: 14.8V / 29.6V)
	Float voltage (at 25°C)	13.0~14.5V / 26.0~29.0V (default: 13.7V / 27.4V)
	Overcharge protection	15.5V / 31.0V
	Temperature compensation	-4.17mV/K per cell (Boost, Eq); -3.33mV/K per cell (Float)
	Parameters for Lithium Batteries	Target charging voltage: 10.0~32.0V; LVD disconnect voltage: 9.0~30.0V
PV input (Solar Panel)	**Max. panel voltage (Voc)**	100V
	Max. input power	260W (for 12V) / 520W (for 24V)
	Dusk/dawn detection voltage	5V / 10V OR 3.0~20.0V (default: 8.0V / 16.0V)
	MPPT tracking range	Battery voltage + 1.0V ~ Voc*0.9
Load output (Load)	**Output current**	20A
	Load disconnect at low voltage	10.8~11.8V / 21.6~23.6V (default: 11.2V / 22.4V)
	Reconnection voltage	11.4~12.8V / 22.8~25.6V (default: 12.0V / 24.0V)
	Load mode	Always on, streetlight, user mode
System Efficiency and Parameters	**Max. tracking efficiency (MPPT)**	> 99.9%
	Max. charging conversion	98.0%
	Power self-consumption (self-draw)	7mA (or ≤8mA for 12V / ≤12mA for 24V)
	Grounding	Common negative
	Power connectors	6 AWG (16 mm²)

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TECHNICAL SPECIFICATIONS - CONTINUED

Environment and Dimensions	**Protection level (Protection)**	IP32
	Ambient temperature	-20°C ~ +55°C
	Ambient humidity	0 ~ 100% RH
	Maximum operating altitude	4000m
	Dimensions	189 x 182 x 64 mm (or 187.5 x 182 x 64 mm)
	Net weight	1,3 kg
	Unit package weight	1,51 kg

PRODUCT GALLERY









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