SOL MPPT 10A (50V) 12V SOLAR REGULATOR + LCD (WITHOUT BLUETOOTH)

REGULAR RANGE

PRODUCT CODE
3IPSMPPT10

EAN
5903760240110

CATEGORY
Photovoltaic panels and accessories

SUBCATEGORY
Solar regulators MPPT

PRODUCT PAGE
voltpolska.pl/produkty/sol-mppt-10a-regulator-solarny-bez-bl...



ABOUT THE PRODUCT

The SOL MPPT 10A (50V) 12V solar regulator with a LCD display, without Bluetooth functionality, is designed to charge batteries from a solar panel array. It uses MPPT technology, which optimises the charging process and enables efficient use of the energy supplied by the panels.

The device automatically detects the battery voltage 12V and is compatible with AGM, GEL, lithium and flooded-electrolyte batteries. The clear LCD display shows the most important operating parameters, while the temperature sensor provides automatic temperature compensation.

The regulator implements a four-stage charging process: MPPT, BOOST, Equalization and Float. It also offers control modes for the connected load: always-on, dusk-to-dawn, night and manual. It is equipped with automatic short-circuit, overtemperature and overload protection.

During configuration, select the battery type appropriate for the device used. Selecting an incorrect charging mode may lead to accelerated wear or damage to the battery and loss of its warranty. For photovoltaic systems, batteries designed for cyclic operation are recommended, including GEL VPRO SOLAR, DEEP CYCLE VPRO SOLAR and LiFePO4.

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TECHNICAL SPECIFICATIONS

System and Battery Parameters	**System voltage**	12V
	Max. charging current	10A
	Battery type	AGM, GEL, LiFePO4 (flooded optional)
	Max. battery voltage	20V
	Charging voltage MPPT	< 14.5V (at 25°C)
	BOOST voltage (at 25°C)	14.5V
	Equalization voltage (at 25°C)	14.8V
	Float voltage (at 25°C)	13.7V
	Overcharge protection	15.5V
	Temperature compensation	-4.17mV/K per cell (Boost, Eq); -3.33mV/K per cell (Float)
PV input (Solar Panel)	**Max. panel voltage (Voc)**	50V
	Max. input power	130W
	Dusk/dawn detection voltage	5V / 10V (Day/Night threshold)
Load Output	**Output current**	10A
	Load disconnection at low voltage	10.8 ~ 11.8V
	Reconnection voltage	11.6 ~ 12.8V
	Load mode	Always on, streetlight, user mode
System Efficiency and Parameters	**Maximum tracking efficiency (MPPT)**	> 99.9%
	Maximum charging conversion efficiency	98.0%
	Own power consumption (self-consumption)	7mA
	Grounding	Common negative
	Power connectors	6 AWG (16 mm²)

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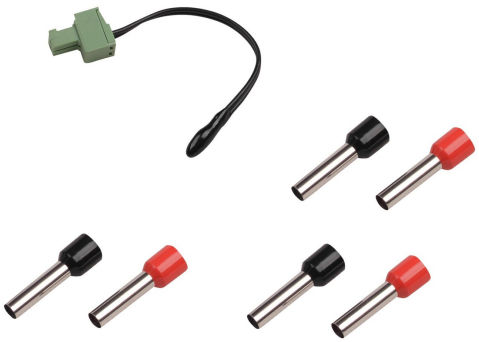
TECHNICAL SPECIFICATIONS - CONTINUED

Environment and Dimensions	**Protection level (Protection)**	IP32
	Ambient temperature	-20°C ~ +55°C
	Ambient humidity	0 ~ 100% RH
	Maximum operating altitude	4000m
	Dimensions	187,5 x 96 x 53 mm (or 189 x 96 x 53 mm)
	Net weight	420g
	Unit packaging weight	0,52kg

PRODUCT GALLERY







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