SOL LED MPPT 20A (50V) 12/24V SOLAR REGULATOR + CONTROLLER LED + PIR SENSOR

REGULAR RANGE

PRODUCT CODE
3IPSMPPT08

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CATEGORY
Photovoltaic panels and accessories

SUBCATEGORY
Solar regulators MPPT

PRODUCT PAGE
voltpolska.pl/produkty/sol-led-mppt-20a-50v-12-24v-regulator...



ABOUT THE PRODUCT

SOL LED MPPT 20A (50V) 12/24V SOLAR REGULATOR + CONTROLLER LED + PIR SENSOR is a MPPT charge controller with an integrated LED controller and PIR motion sensor. It is intended for autonomous photovoltaic installations, particularly solar LED lamps, street, garden, parking and pathway lighting.

MPPT technology enables efficient use of energy from photovoltaic panels. The device enables programming of the lighting time, dimming level and PIR sensor operation, and automatically detects day and night.

The regulator supports flooded, gel, AGM and lithium batteries. It is equipped with protection against excessively low battery voltage, automatic dimming when the voltage drops, and protection against short circuits, overload, overheating and reverse polarity.

The sealed enclosure with an IP67 degree of protection is suitable for autonomous solar lighting systems.

TECHNICAL SPECIFICATIONS

System and Battery Parameters	**System voltage**	Automatic detection of 12V / 24V
	Maximum charging current	20A
	Supported batteries	Flooded, Gel, AGM and Lithium (Lithium by default, programmable)
	Maximum voltage at the battery terminals	35V
PV Panel Parameters	**Maximum voltage at the PV terminals**	55V
	Maximum input power (PV)	260W (for 12V) / 520W (for 24V)
	Dusk/Dawn detection threshold	3,0V ~ 20,0V (programmable)
	Day/Night delay	0 ~ 30 min (programmable)

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TECHNICAL SPECIFICATIONS - CONTINUED

Load Parameters (LED / Load Controller)	**Output power**	10~90W (for 12V) / 20~180W (for 24V)
	Output voltage	20~55V / 30~55V
	Current setting range	0,15A ~ 6,0A
	Dimming	0~100% (programmable)
Communication, Induction and Efficiency	**Communication**	Infrared / 2.4G / IOT
	Induction (sensor)	PIR motion sensor / Microwave
	Maximum controller efficiency LED	96,50%
	Maximum tracking efficiency MPPT	> 99,9%
Environment and Dimensions	**IP rating**	IP67
	Ambient temperature	-35°C ~ +60°C
	Dimensions	145 x 95,8 x 42,5 mm
	Net weight	700 g

PRODUCT GALLERY



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