SOL MPPT 30A (100V) 12/24V SOLAR REGULATOR + LCD + BLUETOOTH

REGULAR RANGE

PRODUCT CODE
3IPSMPPT30

EAN
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CATEGORY
Photovoltaic panels and accessories

SUBCATEGORY
Solar regulators MPPT

PRODUCT PAGE
voltpolska.pl/produkty/sol-mppt-30a-regulator-solarny



ABOUT THE PRODUCT

The SOL MPPT 30A (100V) 12/24V solar regulator is designed to charge batteries from a set of solar panels. It uses MPPT technology, which optimises the charging process and provides conversion and tracking efficiency of > 99,9%.

The device is equipped with a clear LCD display showing the most important operating parameters and wireless communication enabling remote monitoring and operation via a smartphone application. The Solarlife, SolarLifeBT and Solarlife PRO applications are available for IOS and Android systems.

The regulator automatically detects the battery voltage 12V / 24V and supports gel, AGM, lithium and liquid-electrolyte batteries. Settings for all LiFePO4 battery parameters are available exclusively via the application. The temperature sensor provides automatic temperature compensation and limits the charging current when the set temperature is exceeded.

The four-stage charging process includes MPPT, BOOST, Equalization and Float. The regulator offers load control modes: always-on, dusk-to-dawn, night-time and manual. Automatic short-circuit, thermal and overload protection is also provided. The charging settings must be matched to the type of connected battery to avoid accelerated wear, damage and loss of warranty.

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TECHNICAL SPECIFICATIONS

System and Battery Parameters	**System voltage**	12V / 24V (Automatic detection)
	Max. charging current	30A
	Battery type	Gel, AGM, Liquid, Lithium (default: Gel)
	Max. battery voltage	35V
	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	15.8V / 31.3V
	Temperature compensation	-4.17mV/K per cell (Boost, Eq); -3.33mV/K per cell (Float)
	Parameters for lithium batteries	Target (CVT): 10.0~32.0V; Disconnection (LVD): 9.0~30.0V
PV input (Solar Panel)	**Max. panel voltage (Voc)**	100V
	Maximum input power	390W (for 12V) / 780W (for 24V)
	Day/Night threshold	3.0~20.0V (default: 8.0V / 16.0V)
	Day/night delay time	0 ~ 30 min (default: 0 min)
	Tracking range MPPT	Battery voltage + 1.0V ~ Voc*0.9
Load output (Load)	**Output current**	30A
	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
Efficiency, Communication and System	**Maximum tracking efficiency (MPPT)**	> 99.9%
	Maximum charging conversion	98.0%
	Self-consumption	≤ 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**	IP32
	Ambient temperature	-20°C ~ +55°C
	Storage temperature	-25°C ~ +80°C
	Ambient humidity	0 ~ 100% RH
	Maximum operating altitude	4000m
	Dimensions	187.5 x 255 x 69 mm
	Net weight	2 kg

PRODUCT GALLERY









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