SOL MPPT 40A (100V) 12/24V SOLAR REGULATOR + LCD + BLUETOOTH

REGULAR RANGE

PRODUCT CODE
3IPSMPPT41

EAN
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CATEGORY
Photovoltaic panels and accessories

SUBCATEGORY
Solar regulators MPPT

PRODUCT PAGE
voltpolska.pl/produkty/sol-mppt-30a-12-24v-regulator-solarny



ABOUT THE PRODUCT

The SOL MPPT 40A (100V) 12/24V solar regulator is used to charge batteries from a connected set of solar panels. It uses MPPT technology, automatically detects the battery voltage 12V or 24V, and supports GEL, AGM, lithium and liquid-electrolyte batteries.

The device is equipped with a clear LCD display, wireless communication and support through the Solarlife, SolarLifeBT or Solarlife PRO applications, available in the Apple Store and Google Play stores. The application enables remote monitoring of operating parameters and regulator control, while LiFePO4 battery parameter settings are available exclusively through the application.

The regulator offers a four-stage charging process: MPPT, BOOST, Equalization and Float. The temperature sensor provides automatic temperature compensation, while the available load-control modes include continuous operation, dusk-to-dawn operation, night mode and manual mode. The device features automatic short-circuit, overtemperature and overload protection.

When configuring the device, select the battery type appropriate for the model used. An incorrect charging mode may accelerate battery wear, cause damage to the battery and result in loss of warranty. The Solarlife and SolarLife PRO applications are available for IOS and Android systems, while SolarLifeBT is available for the Android system.

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TECHNICAL SPECIFICATIONS

System and Battery Parameters	**System voltage**	12V / 24V (Automatic detection)
	Max. charging current	40A
	Battery type	Gel, AGM, Liquid, 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 (or 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
	Max. input power	520W (for 12V) / 1040W (for 24V)
	Day/night detection threshold	3.0~20.0V (default: 8.0V / 16.0V) OR 5V / 10V
	Day/night delay time	0 ~ 30 min (default: 0 min)
	MPPT tracking range	Battery voltage + 1.0V ~ Voc*0.9
Load output	**Output current**	30A
	Load disconnection 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	**Max. tracking efficiency (MPPT)**	> 99.9%
	Max. charging conversion	98.0%
	Self-consumption	≤ 8mA (for 12V) / ≤ 12mA (for 24V)
	Grounding	Common negative
	Power connectors	6 AWG (16 mm²)

TECHNICAL SPECIFICATIONS - CONTINUED

Environment and Dimensions	**Protection level (Protection)**	IP32
	Ambient temperature	-20°C ~ +55°C
	Storage temperature	-25°C ~ +80°C
	Ambient humidity	0 ~ 100% RH
	Maximum operating altitude	4000m
	Dimensions	189 x 255 x 69 mm
	Net weight	2 kg
	Individual package dimensions	290 x 235 x 90 mm (or 29 x 23.5 x 9 cm)
	Individual package weight	2,2 kg

PRODUCT GALLERY





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