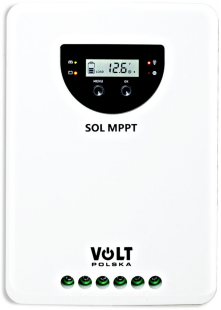
SOL MPPT 60A (150V) 12/24/36/48V SOLAR REGULATOR + LCD + BLUETOOTH

REGULAR RANGE



PRODUCT CODE
3IPSMPPT60

EAN
5904100450497

CATEGORY
Photovoltaic panels and accessories

SUBCATEGORY
Solar regulators MPPT

PRODUCT PAGE
voltpolska.pl/produkty/sol-mppt-60a-12242648v-regulator-sol...

ABOUT THE PRODUCT

SOL MPPT 60A (150V) 12/24/36/48V SOLAR REGULATOR + LCD + BLUETOOTH is used to charge batteries from a solar panel array. It uses MPPT technology, which optimises the charging process and the efficiency of conversion and tracking at the level of > 99,9%.

The regulator supports gel, AGM, lithium and liquid-electrolyte batteries. It offers a four-stage charging process: MPPT, BOOST, Equalization and Float, as well as automatic system voltage recognition 12V / 24V / 36V / 48V.

The device is equipped with a clear LCD display, wireless Bluetooth communication and operation via a dedicated smartphone application. The Solarlife, SolarLifeBT and Solarlife PRO applications are available in the Apple Store and Google Play, depending on the system and its version.

The temperature sensor provides automatic temperature compensation. The regulator offers several load control modes: always-on, dusk-to-dawn, night and manual. W full automatic protections include short-circuit, temperature and overload protection.

W the case of LiFePO4 batteries, all parameter settings are available exclusively through the smartphone application. Select the charging mode appropriate for the battery used, as incorrect settings may lead to faster wear, damage and loss of warranty.

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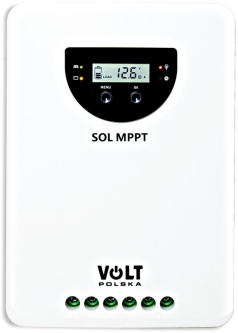
TECHNICAL SPECIFICATIONS

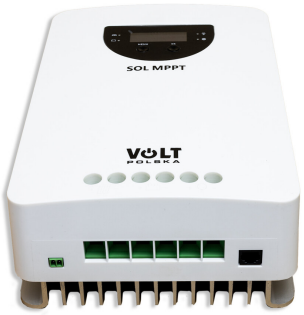
System and Battery Parameters	**System voltage**	12V / 24V / 36V / 48V (Automatic recognition)
	Max. charging current	60A
	Battery type	Gel, AGM, Liquid, Lithium (default: Gel)
	Maximum battery terminal voltage	65V
	BOOST voltage (at 25°C)	14.0~59.2V (depending on the system; e.g. for 12V: 14~14.8V)
	Equalization voltage (at 25°C)	14.0~60.0V
	Float voltage (at 25°C)	13.0~58.0V
	Overcharge protection	15.8V / 31.3V / 46.8V / 62.3V
	Temperature compensation	-4.17mV/K per cell (Boost, Eq); -3.33mV/K per cell (Float)
	Parameters for lithium batteries	Target (CVT): 10.0~64.0V; Disconnect (LVD): 9.0~60.0V
PV input (Solar Panel)	**Max. panel voltage (Voc/Vmp)**	150V (at -20°C) / 138V (at 25°C)
	Max. input power	750W (for 12V) / 1500W (24V) / 2250W (36V) / 3000W (48V)
	Max. input current from panels (Imp)	60A
	Day/night detection threshold	3.0~40.0V (depending on system) OR 5V / 10V
	MPPT tracking range	Battery voltage + 1.0V ~ Voc*0.9
Load output (Load)	**Output current**	30A
	Load disconnect at low voltage	10.8~11.8V (for 12V) ... up to 43.2~47.2V (for 48V)
	Reconnect voltage	11.4~12.8V (for 12V) ... up to 45.6~51.2V (for 48V)
	Load mode	Always on, street lamp, user mode

TECHNICAL SPECIFICATIONS - CONTINUED

Efficiency, Communication and System	**Max. tracking efficiency (MPPT)**	> 99.9%
	Max. charging conversion	98.0%
	Self-consumption	≤ 16mA (for 12V) / ≤ 12mA (for 24/36/48V)
	Communication	BLE (Bluetooth), RS485 (RJ11 interface), IoT optional
	Grounding	Common negative
	Power connectors	6 AWG (16 mm²)
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	262 x 186 x 97 mm
	Net weight	3 kg
	Dimensions/unit packaging weight	33 x 23 x 10 cm / 3,44 kg

PRODUCT GALLERY





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