SOL MPPT 10A (50V) 12V SOLAR REGULATOR + BLUETOOTH

REGULAR RANGE

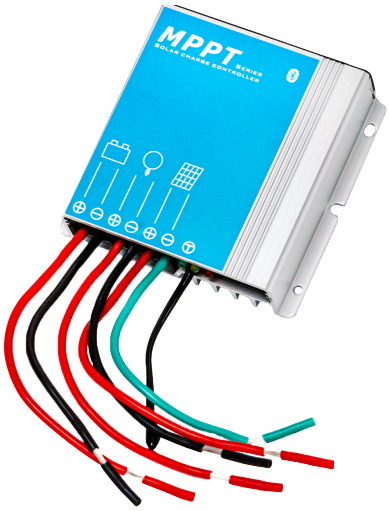
PRODUCT CODE
3IPSMPPT09

EAN
5903760240141

CATEGORY
Photovoltaic panels and accessories

SUBCATEGORY
Solar regulators MPPT

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



ABOUT THE PRODUCT

SOL MPPT 10A is a solar regulator designed to charge batteries from a connected set of solar panels. It uses maximum power point tracking technology MPPT, ensuring conversion and tracking efficiency > 99,9%.

The device automatically detects the battery 12V and is compatible with GEL, AGM, lithium and flooded-electrolyte batteries. It supports a four-stage charging process: MPPT, BOOST (pulse), Equalization and Float.

The regulator can be operated באמצעות a dedicated smartphone application. The SolarLife, SolarLifeBT and SolarLife PRO applications are available in the Apple Store for IOS and Google Play for Android. All battery parameter settings LiFePO4 are available exclusively through the application.

W fully automatic protection functions protect the device against short circuits, overheating and overload. Before starting operation, select the appropriate battery type in the settings, as using an incorrect charging mode may lead to faster wear, damage and loss of warranty. For photovoltaic installations, batteries designed for cyclic charging are recommended, including gel batteries GEL VPRO SOLAR, DEEP CYCLE VPRO SOLAR or lithium batteries LiFePO4.

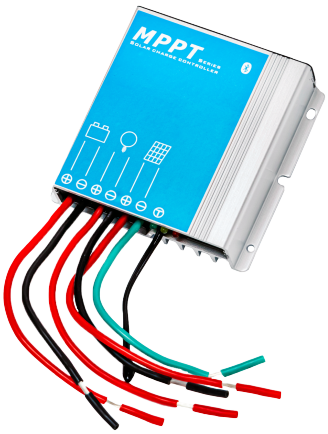
TECHNICAL SPECIFICATIONS

System and Battery Parameters	**System voltage**	12V
	Max. charging current	10A
	Battery type	Gel, AGM, Lithium, flooded-electrolyte
	Max. battery voltage	25V
	Boost voltage (at 25°C)	14.0 ~ 14.8V (default: 14.5V)
	Equalization voltage (at 25°C)	14.0 ~ 15.0V (default: 14.8V)
	Float voltage (at 25°C)	13.0 ~ 14.5V (default: 13.7V)
	Overcharge protection	15.5V
	Target charging voltage (Lithium - CVT)	10.0 ~ 17.0V
	Charging recovery voltage (Lithium - CVR)	9.2 ~ 16.8V
	Temperature compensation	-4.17mV/K per cell (Boost, Eq); -3.33mV/K per cell (Float)
PV input (Solar Panel)	**Max. panel voltage**	45V
	Max. input power	130W
	Tracking range MPPT	Battery voltage + 1.0V ~ Voc*0.9
	Dusk/dawn detection voltage (Day/Night threshold)	3.0 ~ 8.0V (default: 5V) / 5~10V
	Day/night delay time	0 ~ 30 min (default: 0 min)
Load output	**Output current**	10A
	Low-voltage load disconnect (LVD)	10.8 ~ 11.8V, SOC1~5 (default: 11.2V) / Lithium: 9.0 ~ 15.0V
	Load reconnect voltage (LVR)	11.4 ~ 12.8V (default: 12V) / Lithium: 9.6 ~ 16.0V
	Load mode	Always on, streetlight, user mode
System efficiency and parameters	**Maximum tracking efficiency (MPPT)**	> 99.9%
	Maximum charging conversion	96.5%
	Self-power consumption (self-consumption)	8mA

TECHNICAL SPECIFICATIONS - CONTINUED

Environment and dimensions	Protection level	IP67
	Ambient temperature	-35°C ~ +60°C
	Ambient humidity	0 ~ 100% RH
	Maximum operating height	4000m
	Dimensions	85.8 x 81 x 23.1 mm
	Net weight	260g (0.26kg)
	Unit packaging weight	0.29kg

PRODUCT GALLERY



VOLT POLSKA Sp. z o.o.

ul. Świemirowska 3, 81-877 Sopot
NIP 5851458032 | REGON 221142660
KRS 0000372066

voltpolska.pl
(58) 500-85-62
hurt@voltpolska.pl
pomoc@voltpolska.pl

This datasheet was generated automatically; technical data and images are for reference only and may change without notice. To the extent permitted by law, VOLT POLSKA accepts no liability for any errors or inaccuracies in this datasheet.