

Code: SP-KIT-50/20/MPPT

SOLAR KIT **SP-KIT-50/20/MPPT** 135 Wh

The SP-KIT-50/20/MPPT solar kit consists of a panel, a controller, a battery and connection cables with connectors. The kit allows you to power small devices such as LED lighting, weather station, garden irrigation controller, etc.



In the kit:	• Solar Panel 50 W, • Battery 20 Ah, • Solar Charge Controller - 20 A, MPPT, • Connecting cables : 2 x 5 m, • MC4 connector ,
Theoretical daily energy production (for Poland):	135 Wh
Guarantee:	2 years

Solar Panel:

Maximum power:	50 W
Maximum Power Current (I_{mp}):	2.86 A
Maximum Power Voltage (V_{mp}):	17.5 V
Short-circuit Current (I_{sc}):	3.01 A
Open-circuit Voltage (V_{oc}):	21.5 V
Length of the cables:	2 x 0.55 m
Cell Type:	Polycrystalline
Panel Structure:	Rigid in an aluminum frame
Weight:	4 kg
Dimensions:	670 x 540 x 30 mm
Manufacturer / Brand:	JustSolar

Solar Charge Controller:

Regulation Type:	MPPT
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Rated voltage:	12 / 24 V
Rated current:	20 A
Input voltage:	10 ... 40 V for 12 V battery 20 ... 65 V for 24 V battery
Battery charging current:	max. 20 A
Load Current:	max. 20 A
Main features:	- The device is designed to charge AGM, gel and LiFePO₄ batteries, - LED diodes indicating the device operation status
Weight:	0.79 kg
Dimensions:	171 x 127 x 73 mm
Manufacturer / Brand:	AZO Digital

Battery:

Battery capacity:	20 Ah
Rated voltage:	12 V
Battery charging current:	max. 6.2 A
Connector:	M5 screw
Battery type:	Maintenance-free AGM (Absorbent Glass Mat) battery
Battery lifetime:	6 ... 9 years
Weight:	5.83 kg
Dimensions:	180 x 167 x 76 mm

Connecting cable:

Inner conductor:	4.0 mm ² - Stranded wire Cu - Tin-plated
Rated voltage:	600 V / 1000 V AC 1800 V DC
Outer coating:	Ø 5.0 mm - Non-halogen plastic
Main features:	- UV radiation resistance - Ozone resistance - Hydrolysis resistance - Resistant to oils and aggressive chemicals - Flame resistance (according to VDE 0482-332-2, DIN EN 60332-1) - The insulating layer is made of halogen-free material, which does not produce aggressive fumes during combustion - Increased mechanical strength of the outer coating - Expected lifetime : 25 years

MC4 connector:

Connector type:	MC4 - set (M + F) / Crimping
Rated voltage:	1000 V
Rated current:	30 A
Material:	Plastic + Metal
Color:	Black



DATA SHEET

Application:	Solar installations
"Index of Protection":	IP67
Flammability class:	UL94-VO
Weight:	0.022 kg
Dimensions:	Ø 19 x 87 mm