SCM20

MASTERVOLT
THE POWER TO BE INDEPENDENT

- · High efficiency: your batteries are charged quickly.
- · Capacity for solar panel configurations of up to 3600 Wp.
- · Suitable for AGM, gel, wet and Mastervolt Lithium Ion batteries.
- · Fast and flexible setting of battery type.
- · Battery temperature sensor for long lifespan.
- · Automatic 12 V/24 V/48 V detection.
- · Switchable output.
- · Noiseless operation.
- · LCD display.
- · Fully protected against overtemperature, overload, high/low battery voltage, high/low PV voltage, short circuit and reverse polarity.

Specifications

Specifications battery charger

System voltage (battery)	12/24 V auto select
Battery types	AGM, gel, wet, Lithium Ion
Battery temperature sensor	yes
Lithium Ion protection	via DC relay & Multipurpose Contact Output, product code 77030500
Max. charge current at 25 °C / 77 °F	20 A
Switchable output (max. current)	20 A
Energy consumption (night)	5 mA

Specifications solar input (DC)

Nominal PV current at 25 °C / 77 °F	20 A
PV start voltage (12/24 V)	12.8 V/25.6 V
Max. PV voltage (Tmin)	50 V
Max. PV power (12 V)	360 Wp
Max. PV power (24 V)	720 Wp

Communication & monitoring

Communication	PC-Link (optional)

General specifications

Cooling	passive
Display/read-out	LCD display with battery state of charge, status output, battery setting
Dimensions, hxwxd	98 x 140 x 41 mm
	3.9 x 5.5 x 1.6 inch
Weight	0.2 kg
	0.4 lb
Alarms	buzzer
Protection degree	IP20
Grounding	(-) terminal

Technical specifications

Technology	PWM (Pulse Width Modulation)
Temperature range (ambient temp.)	-25 °C to 50 °C
	-13 to 122 °F
Cable size	max. 16 mm² Litz wire
Protections	over temperature, over load, high/low battery voltage, high/low PV voltage, short circuit, reverse polarity & HV

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transients

Relative humidity   95% non-condensing