

SHS 200 MPPT PAYGo enabled

www.victronenergy.com



SHS 200 – Front view Keypad and LCD screen



SHS 200 – mounted on optional battery box

Solar home system

The SHS 200 is a smart solar charge controller and power distribution system designed for off-grid electricity access. It is used with solar panels and a battery to power DC appliances (12V).

200W MPPT charge controller

Smart charge controller with four PV inputs of 50Wp. Maximum power point tracking (MPPT) will improve energy harvest by up to 30% compared to PWM charge controllers.

Smart battery management

Smart multi-stage charging and load disconnect to extend battery life. Internal temperature sensor (compensates charge voltage according to temperature). Optional battery enclosure to prevent user from tampering with battery terminals.

Fifteen DC load outputs

Compatible with a large range of accessories such as LED lighting, mobile phone charging, TVs, DC fridge, fans, or sound systems.

PAYGo enabled

Low-cost and reliable offline Pay-as-you-go (PAYG) operation through keypad activation. Compatible with most mobile money carriers and various PAYG software platforms.

LCD screen

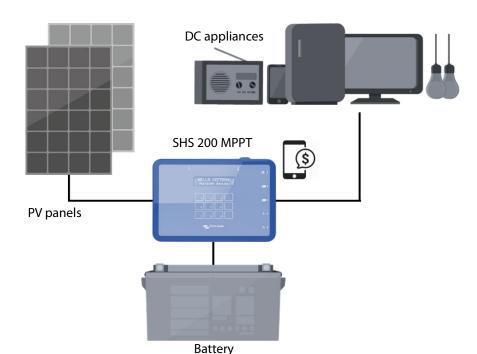
Display parameters such as usage statistics, battery state of charge and agent diagnostics. Easy navigation and adjustable languages (English, French, Swahili).

Customizable design

Different levels of personalization to distributor brands and last-mile operators.

Battery box

Optional anti-tampering box to prevent direct connection of loads on battery terminals.



Pay-as-you-go operations

- The customer makes payment by mobile money or cash transfer to unlock his device for a definite period (e.g. one week)
- 2) The customer receives a recharge code on his cell phone by SMS.
- 3) The customer enters the code on the keypad of the device.
- 4) The product is unlocked and can be used until time credited is spent.

Example of daily usage

200Wp solar panel / 130Ah battery

1 x 50L fridge

1 x 24" TV with decoder for 8 hours

6 x 3W LED light bulbs for 6 hours

1 x radio for 6 hours

5 x phone charges per day



Battery voltage 12Vdc Nominal PV power Up to 200Wp total (36 cells panels) Tell PV power Maximum charge / discharge currents 14A / 20A	SHS 200 MPPT			
Maximum charge / discharge currents Peak efficiency 96% Suitable battery capacity Up to 160Ah Sosorption / float voltages 14.4V / 13.75V (configurable) Temperature compensation Yes (automatic) Automatic load disconnect Ves (configurable low state of charge disconnect) Operating temperatures 0 to 40°C (derating from 35°C) Humidity 90%, non-condensing Battery reverse polarity, battery overvoltage, battery undervoltage, battery overcurrent. PAYGO Remote activation Unlock tokens sent to end-user via SMS to activate the system Compatible PAYGO platforms PaygOps, Angaza, Paygee Token technology Free and secure open-source token system (OpenPAYGO) ENCLOSURE Barrel model 4 x 5.5mmx2.1mm barrel connectors with an individual current limit of 5A Voltage: 4.75V-5.25V USB outputs USB outputs USB ports (type A) Voltage: 4.75V-5.25V Overall maximum of 1.5A per port Compliant with the USB Battery charging 1.2 standard Protections of twa was and 4.2 port 1 and 2 (from bottom): - Current: Up to 3A - Connector: 5.5mm x 2.1mm barrel connector Port 3 and 4: - Current: Up to 5A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.0mm pin space pluggable screw terminal Operating temperatures Oto 40°C (derating from 35°C) Standard: black enclosure and blue keypad Customizable co-branding (minimum order quantity: 1000 units)	Battery voltage	12Vdc		
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Protection: software overcurrent protection and resettable fuse Port 1 and 2 (from bottom): - Current: Up to 3A - Connector: 5.5mm x 2.1mm barrel connector Port 3 and 4: - Current: Up to 5A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A - Connector: 5.08mm pin space pluggable screw terminal Operating temperatures O to 40°C (derating from 35°C) Standard: black enclosure and blue keypad Customizable co-branding (minimum order quantity: 1000 units) Dimensions (h x w x d) 148 x 204 x 67 mm Net weight	USB outputs	Voltage: 4.75V-5.25V Overall maximum of 10A across all ports Individual maximum of 1.5A per port		
Color Standard: black enclosure and blue keypad Customizable co-branding (minimum order quantity: 1000 units) Dimensions (h x w x d) 148 x 204 x 67 mm Net weight 0.39kg	Standard 12V DC outputs	Protection: software overcurrent protection and resettable fuse Port 1 and 2 (from bottom): - Current: Up to 3A - Connector: 5.5mm x 2.1mm barrel connector Port 3 and 4: - Current: Up to 5A - Connector: 5.5mm x 2.1mm barrel connector Port 5: - Current: Up to 10A		
Customizable co-branding (minimum order quantity: 1000 units) Dimensions (h x w x d) 148 x 204 x 67 mm Net weight 0.39kg	Operating temperatures	0 to 40°C (derating from 35°C)		
Net weight 0.39kg	Color	* *		
	Dimensions (h x w x d)	148 x 204 x 67 mm		
Protection category IP 41	Net weight	0.39kg		
•	Protection category	IP 41		

