

12V DC Solar Home System (SHS)

The Microcare 12V Solar Home System has been designed and manufactured in South Africa for South African conditions to provide basic needs such as lights, cell phone charging and small 12V appliances. Harnessing energy from the sun the robust power supply with its built in Maximum Power Point Tracker (MPPT) extracts maximum power from the PV panel into the dedicated battery which is enclosed in the system. With its portable and easy access set-up, the power supply is able to supply the basic power essentials required for basic living conditions



- Easy Wiring Access to Powder Coated Cabinet
- 2 x USB ports & Digital Battery Voltage Display
- 12V 10A DC Socket & LED Lights Output
- 10A Solar Charger for a 12V 105Ah Battery
- Pre-Load Shed Audible Warning
- 2 Stage Load Disconnect



Electrical Specifications	
Maximum Solar Input	100W
Charger Input	10A MPPT
LED Lights Output	50W
2 x USB Port Output	5VDC @ 1A , 5VDC @ 2,1A
12V Socket Output	12 VDC @ 10 A
Protection	20A Battery Fuse
Stage 1 (USB & 12V Socket) Disconnect, Reconnect	12V, 13V
Stage 2 (Lights) Disconnect, Reconnect	11.7V, 12.5V
Optional Battery Specification	
Voltage	12VDC
Battery Capacity	100-105Ah
Battery Cabinet Size	344mm (w) x 190mm (d) x 400mm (h)

LED MODE	PV LED	STATUS LED
OFF	Not Applicable	Load shed stage 2—USB OFF, Lights OFF
PULSE (once every 4s)	Night Time—No Charging	Not Applicable
FLASH (once every 2s)	Day Time—Boosting	Load shed stage 1—USB OFF, Lights ON
ON	Day Time—Battery Full	Power ON—USB ON, Lights ON