



## Features:

- A fully automatic, high efficiency, high reliability, DC mode solar UPS. Ideal power solution for rural off-grid electrification projects.
- Directly powers IT, telecom and lighting equipment, eliminating lossy DC-AC inversion, AC-DC rectification.
- State of the art SMPS technology with 100KHz operating frequency – high efficiency, long life product.
- Microprocessor controlled remote monitoring.
- Solar power input from 80Wp panels.
- CC-CV battery charger for 24V 26Ah battery backup. Designed to maximise life and capacity of the battery.
- 165~265 V AC input to augment solar power.
- 19V DC 180W regulated power output.
- High voltage protection on AC input – designed for the erratic power supply in rural India.
- Prioritises solar power utilisation. If solar power is insufficient for load and charging requirements, only these uses AC or battery power.
- Combines solar power with AC or battery power, minimising AC bills and maximising battery backup time.
- Online UPS with no relays on output side – smooth uninterrupted DC power leads to longer life of electronic components.



DC mode UPS for powering IT and Telecom equipment. Conserves precious solar energy and storage battery power by eliminating conversion losses.

## Technical Specifications

<b>Technology</b>	100KHz switch mode	
<b>Power Output</b>	180 Watts @ 19V DC	
<b>Solar input</b>	2 × 17V solar panels; total 80Wp power input.	
<b>AC Input</b>	230V AC, 50 Hz, typical	
<b>Battery</b>	2 × 12V batteries; total 24V 26Ah (624 Wh) capacity.	
<b>Solar Input</b>	Open Circuit Voltage	42 V DC
	MPP Voltage	34 V DC
	MPP Current	2.35 A
<b>AC Input Range</b>	Voltage	165 ~ 265 V AC
	Frequency	47 ~ 63 Hz
<b>AC Input Protection</b>	High Voltage Cutoff	270 V
	High Voltage Restore	260 V
	High Voltage Sustain	400 V
<b>Battery Charging</b>	Charging Current	3 A DC
	Boost Cutoff Voltage	28 V DC
	Float Voltage	26.4 V
<b>Battery Discharge</b>	Low Battery Alarm	22 V DC
	Low Battery Cutoff	21 V DC
	Low Battery Restore	24 V DC
<b>DC Output</b>	Voltage	19.5 V DC typical
	Ripple	150 mV
	Regulation	±5%
<b>Output Protection</b>	Over Voltage Cutoff	21 V DC
	Over Current Cutoff	10 A DC
<b>Dimensions</b>	226 mm × 163 mm × 59 mm	
<b>Weight</b>	2.00 kg	
<b>Construction</b>	Galvanised steel sheet	
<b>Operating Environment</b>	Temperature	0 ~ 35°C
	Humidity	10 to 90%
<b>Efficiency</b>	90% +	

