SINGLE-PHASE / SINGLE-PHASE

HOME UPS

& SINE WAVE INVERTER

Designed for dependable backup power with sine wave output, microprocessor-based control and integrated protection functions.



PRODUCT VIEW / FRONT PANEL

AVAILABLE CAPACITY RANGE

1100 VA - 5 kVA

Six ratings available:
1100 / 1600 / 2000 / 2500 / 3500 VA / 5 kVA

01
SINE WAVE OUTPUT

02
16-BIT CONTROL

03
BATTERY CHARGING

01 PRODUCT CAPABILITIES

Control. Charging. Protection.

Six standard VA ratings combine a sine-wave inverter platform with battery charging, monitoring and electrical protection.

Sine wave output

AC sine-wave output suitable for sensitive appliances.

16-bit control

Microprocessor-based control for inverter and UPS functions.

Multistage charging

Integrated multistage charger designed to support battery charging.

Battery compatibility

Supports flat plate, tubular and VRLA (SMF) batteries.

Status indication

LED indications for supply, charging and operating/fault states.

MCB protection

MCB provided at the output side for load/mains protection.

AVAILABLE UPS RATINGS

1100 VA	1600 VA	2000 VA
2500 VA	3500 VA	5 kVA

Battery system: one-, two-, three- or four-battery configurations are supported across the product range. The exact battery arrangement is model dependent.

02 HARDWARE & SAFETY

Practical controls. Built-in safeguards.

Rear-panel controls and integrated electrical safeguards.



PRODUCT VIEW / REAR PANEL

OBSERVABLE CONTROLS & CONNECTIONS

The photographed unit shows UPS / bypass selection, normal / boost charging selection, an output socket, a miniature circuit breaker, a cooling fan and battery DC leads. Front-panel legends include Mains On, UPS On, Charge On, O/L Fault and Low Batt.

01 LOAD / OUTPUT

Overload & short circuit

Excessive overload or a short circuit in UPS mode activates protection and shuts down the output. An audible alert is provided for overload conditions.

02 BATTERY

Battery protection

Inbuilt electronic protection provides safeguards against battery deep discharge and overcharging.

RESTART / ALARM RESPONSE

Overload recovery is supported when the load is brought within the unit capacity; operation above the permissible capacity results in a trip.

Product photographs are illustrative; panel configuration may vary with selected rating.

03 TECHNICAL DATA

Reference technical specifications

Single-phase home UPS / sine-wave inverter product family | 1100 VA to 5 kVA

PRODUCT & ELECTRICAL	
Product type	Home UPS / sine-wave inverter
VA ratings	1100 / 1600 / 2000 / 2500 / 3500 VA / 5 kVA
Input / output phases	Single phase / single phase
Output waveform	Sine wave
Control architecture	16-bit microprocessor
Battery count	1 / 2 / 3 / 4 batteries; configuration varies by model
Battery compatibility	Flat plate / tubular / VRLA (SMF)
Battery charger	Multistage charger
INDICATION, PROTECTION & CONSTRUCTION	
Indication	LED status indicators
Output-side MCB	Provided for output mains/load protection
Output protection	Overload and short-circuit shutdown in UPS mode
Battery protection	Deep discharge and overcharge protection
Thermal management	Forced-air cooling
Cable entry	Rear side, bottom
ENVIRONMENTAL	
Operating ambient	0 to +45 °C
Storage temperature	-10 to +70 °C
Relative humidity	Up to 95% RH, non-condensing
Acoustic noise	Less than 65 dB
Site altitude	Below 1000 m above mean sea level

Model-specific DC battery voltage, battery quantity and backup duration must be confirmed against the selected rating and approved order specification.

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