

Home Inverter (H series, Pure Sine Wave output), 800 / 1.2K / 1.6K / 2.4K / 3.2K / 4KVA

General Features:

- ◆ Adjustable voltage-transfer points & charging voltage
- ◆ Automatic restart of load after inverter shutdown
- ◆ Smart AVR function (Two buck / boost modes)
- ◆ Wide input range 140V~310V for 230V area; & 70V~155V for 115V area.
- ◆ Generator compatible & Cold-start capable
- ◆ Full function of LCD display (LED optional) with Audible alarm
- ◆ Smart battery management with big charger; Wet battery compatible
- ◆ Intelligent double stages of charging control; Adjustable charging current by DIP for different battery
- ◆ Thermal control cooling fan
- ◆ With DC/AC Isolation
- ◆ Support Solar panel input for charger (Optional).



Wall-mount for 800VA / 1200VA



Wall-mount for 1600VA~4KVA



Tower for 800VA ~ 4KVA

Output

	115V Models	230V Models
Power Levels crated at nominal inputs	800VA / 600W ; 1200VA / 900W 1600VA / 1200W ; 2400VA / 1800W 3200VA / 2400W ; 4000VA / 3000W (4K for 230V only)	
Output Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Voltage Waveform	Pure Sine wave	
Crest Factor	3 : 1	
Output Frequency (Synchronized to Mains)	Auto Select for 50/60Hz 47Hz ~ 55Hz for 50Hz nominal 56Hz ~ 65Hz for 60Hz nominal	
Regulation (Nominal)	±10% typical of nominal voltage	
Regulation (Battery mode)	±3% of selected output voltage (adjustable with the remote set-up software)	
Transfer time	Blackout 3ms typical Brownout 1ms typical Battery mode to Normal mode : 1ms typical	

Over current protection	Over load alarm level 100% ~ 120% Over load shutdown level 120% ~ 190% (Adjustable by using the remote set-up software)
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☐ Input

	115V Models	230V Models
Nominal Voltage	100V/110V/115V/120V Selectable	200V/220V/230V/240V Selectable
Input Frequency	47Hz ~ 65Hz, 50/60Hz auto-sensing	
Efficiency (Normal mode)	97%	
Noise Filtering	Full time EMI/RFI filtering	
Over current protection	Re-settable over current protector : 800VA ~ 3200VA	AC Fuse : 800VA / 1200VA Re-settable over current protector : 1600VA ~ 4000VA
Voltage Range	70V ~ 155V	140V ~ 310V
AVR Range (2 Bucks, 2 Boosts)	Enhanced Buck: +28% of selected nominal voltage Buck mode: +10% of selected nominal voltage Boost mode: -10% of selected nominal voltage Enhanced Boost: -25% of selected nominal voltage	
Surge Protection	800VA / 1200VA : 216 Joules 1600VA ~ 3200VA : 324 Joules	800VA / 1200VA : 220 Joules 1600VA ~ 4000VA : 440 Joules

☐ Battery

Battery type	Lead-Acid 50Ah ~ 500Ah (Recommended)
Voltage	800VA / 1200VA : 12Vdc ; 1600VA / 2400VA : 24Vdc 3200VA : 36Vdc ; 4000VA : 48Vdc
Typical backup time	No Limit
Charging method	Smart pulse charging with two charging modes : Quick charging when battery is not fully charged, trickle charging when battery is 90% fully charged.
Maximum charging current	800VA : 20A / 1200VA : 30A / 1600VA : 25A 2400VA : 35A / 3200VA : 30A / 4000VA : 30A
Average charging voltage for each battery	Quick charging mode : 14V maximum. Trickle charging mode : 13.5V (adjustable with the remote set-up software)
Protection	Over current protection & Over charging voltage protection (SCR control) Thermal protection (CPU control) When temperature inside the unit is over 45°C, charger will stop charging for 2 minutes followed by an 2 minutes charging. The cycle will be repeated until the temperature is lower than 44°C.
Monitoring	Smart monitoring & warning for failed battery or open-circuit battery. Auto-detection each time when power on or every 6 days.

☐ Solar Charger (optional)

Rating voltage	12V / 24V / 36V / 48V
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DC input range	12V model : 12 ~ 21Vdc 24V model : 24 ~ 42Vdc 36V model : 36 ~ 63Vdc 48V model : 48 ~ 84Vdc
Charging method	Constant voltage with current limiting by PWM control
Charging voltage	12V model : 13.5Vdc 24V model : 27.0Vdc 36V model : 40.5Vdc 48V model : 54.0Vdc
Power rating	12V model : 500W (13.5Vdc @ 37A) 24V model : 1000W (27.0Vdc @ 37A) 36V model : 1000W (40.5Vdc @ 25A) 48V model : 1000W (54Vdc @ 18.5A)
Protection	DC input polarity protection, DC input short circuit protection(when battery is connected), DC output over current protection

☐ Communications & Management

Standard Interface port	UPSilon2000 compatible; optional for RS232 and/or USB.
Optional Interface part	RJ45 (Surge protection), DB9, SNMP (external type)
Control panel	LCD or LED Selectable
Audible alarm	Alarm on battery : Low battery & Battery over voltage Alarm on abnormal operation : Over load, Short-circuit, & Over heat
Green mode function (Auto-shut-off in blackout)	1% to 14% of full load (adjustable by using the remote set-up software) The default setting is OFF.
Cooling fan control	Auto on / off, controlled by temperature & operation mode

☐ Environmental and Safety

Operating Temperature	Up to 1500 meters : 0°C to 40°C (32°F to 104°F)
Transit/storage Temp.	-15°C to 55°C (5°F to 131°F)
Relative Humidity	5 - 95% non condensing
Operating Altitude	0 ~ 3000 meters
Quality control system	ISO 9001

☐ Physical

Dimensions: (D×H×W) Unit / Shipping	Wall-mount type : 800VA / 1200VA : 12 x 25 x 37 (cm) / 22 x 31 x 47 (cm) 1600VA ~ 4000VA : 22 x 44 x 27 / 36 x 61 x 41 Tower type : 800VA / 1200VA : 38 x 20 x 18 (cm) / 48 x 33 x 30 (cm) 1600VA / 2400VA : 45 x 20 x 18 (cm) / 54 x 33 x 30 (cm) 3200VA / 4000VA : 51 x 20 x 18 (cm) / 61 x 33 x 30 (cm)
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<p>Weight: Net / Gross (kg)</p>	<p>Wall-mount type : 800VA : 10 / 11 (kg) / 1200VA : 13 / 14 (kg) 1600VA : 15 / 16 (kg) / 2400VA : 26 / 28 (kg) 3200VA : 34 / 36 (kg) / 4000VA : 41 / 43 (kg)</p> <p>Tower type : 800VA : 12 / 13 (kg) / 1200VA : 15/16 (kg) 1600VA : 19 / 21 (kg) / 2400VA : 25 / 27 (kg) 3200VA : 33 / 35 (kg) / 4000VA : 40 / 42 (kg)</p>
<p>Packing</p>	<p>Export carton for each unit, 16 - 30 units per pallet</p>