



H SERIES INVERTER

TOWER & DESKTOP MODEL

600VA ~ 5KVA

 Pure Sinewave
inverter

H SERIES INVERTER

Home Inverter (Desktop Inverter) (H series, Pure Sine Wave output), 600VA / 1K/1.6K/2.4K/ 3.2K/4K/5K



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; or 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 (MPPT, Optional)



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SPECIFICATION

Output						
MODEL	600VA	1KVA	1.5KVA	2KVA	3KVA	5KVA
Output Voltage	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					
Input						
Nominal Voltage	200V/220V/230V/240V Selectable					
Input Frequency	47Hz~65Hz, 50/60Hz auto-sensing					
Efficiency (Normal mode)	97%					
Voltage Range	140V-310V					
Battery						
Battery type	Lead-Acid 50Ah~500Ah (Recommended)					
Voltage	12VDC	24VDC	48VDC	48VDC	48VDC	48/96VDC
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	20A	30A	40A	45A	45A	60A
Average charging voltage for each battery	Quick charging mode: 14V maximum : Trickle charging mode: 13.5V (adjustable with the remote set-up software)					
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					
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/MPPT 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)					
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.					
Coolin fan control	Auto on/off, controlled b temperature & o eration mode.					
LC Features & Protection						
Output Over current protection	Over load alarm level 100%- 120% : Over load shutdown level 120%- 190% (Adjustable by using the remote set-up software)					
Input Over current protection	AC Fuse: 800V/1200VA. Re-settable over current protector: 1600VA-8000VA					
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	8000/1200VA:220 Joules: 1600VA~8000VA:440 Joules					
Battery 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.					
Noise Filtering	Full time EMI/RFI filtering					
Solar Protection	DC input polarity protection, DC input short circuit protection(when battery is connected), DC output over current protection.					
Isolation						
	With DC/AC isolation					
Environmental 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					

DP Electronics (Deutsche Power Co. Limited) has a policy of continuous product development and improvement and therefore reserve the right to vary any information without prior notes.