

آدرس: تهران - بلوار مرزداران - خیابان ابراهیمی - برج الوند - طبقه ۵ شمالی - واحد ۵۰۱
تلفن: ۴۴۳۸۰۲۷۳ پشتیبانی: ۰۹۱۹۶۷۸۵۴۱۱

s series



- 450VA/650VA/850VA/1KVA/1.5KVA/2KVA line interactive UPS
- Built-in super smart charger, shorten 50% of charging time
- Excellent microprocessor control guarantees high reliability
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Modified sine wave
- Off-mode charging
- Cold start function
- Optional USB/RS-232 communication port and RJ-11/RJ-45 protection
- Offering LED and LCD display for selections

MODEL		S450	S650	S850	S1000	S1500	S2000
CAPACITY		450VA / 240W	650VA / 360W	850VA / 480W	1000VA / 600W	1500VA / 900W	2000VA / 1200W
INPUT							
Voltage		110/120 VAC or 220/230/240 VAC					
Voltage Range		81-145 VAC / 162-290 VAC					
Frequency Range		60/50 Hz (auto sensing)					
OUTPUT							
AC Voltage Regulation (Batt. Mode)		±10%					
Frequency Range (Batt. Mode)		60 Hz or 50 Hz ±1 Hz					
Transfer Time		Typical 2-6 ms, 10ms max.					
Waveform (Batt. Mode)		Simulated Sine Wave					
BATTERY							
Battery Type & Number		12 V/4.5 Ah x 1	12 V/7 Ah x 1	12 V/9 Ah x 1	12 V/7 Ah x 2	12 V/9 Ah x 2	12 V/9 Ah x 2
Typical Recharge Time		4-6 hours recover to 90% capacity					
PROTECTION							
Full Protection		Overload, discharge, and overcharge protection					
INDICATORS							
LCD Display		AC Mode, Battery Mode, Load Level, Battery Level, Input Voltage, Output Voltage, Overload, Fault, and Low Battery					
LED Display	AC Mode	Green lighting			Green lighting	The right green LED lighting & the 2nd to 5th green LEDs gradually lighting indicating load level	
	Battery Mode	Green flashing			Yellow flashing	The right green LED flashing & the 2nd to 5th green gradually lighting indicating battery capacity	
	Fault	N/A			Red lighting		
ALARM							
Battery Mode		Sounding every 10 seconds					
Low Battery		Sounding every second					
Overload		Sounding every 0.5 second					
Battery Replacement Alarm		Sounding every 2 seconds					
Fault		Continuously sounding					
PHYSICAL							
Dimension, D x W x H (mm)		287 x 100 x 142			350 x 146 x 160	397 x 146 x 205	
Net Weight (kgs)		3.55	4.25	4.9	8	11.1	11.5
ENVIRONMENT							
Humidity		0-90 % RH @ 0- 40°C (non-condensing)					
Noise Level		Less than 40dB					
MANAGEMENT							
Optional USB/RS-232 Port		Supports Windows:2000/2003/XP/Vista/2008,Windows:7,Linux,Unix,andMAC					

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HP11 Rack series from 1kVA to 3kVA

Complete solutions for IT infrastructures



•Microprocessor-based line interactive design

HPR UPS is designed with microprocessor controller for fast response to power disturbances.

•Pure sine wave output

With pure sine wave output, HPR series guarantees compatibility for all kinds of loads. It's perfect power protection for versatile applications such as networking, telecom and other mission-critical applications.

•User-friendly and easy-shift LCD display

The front panel digital display can be easily shifted through LCD setting to suit the installation format, vertically stand or flat wall mount.

•Rack/Tower design

HPR series is designed in true 2U universal-mount case. It can be easily installed as floor-standing tower or in 19-inch rackmount bracket.

•Built-in boost and buck AVR

With built-in voltage regulator, the UPS will maintain regulated nominal output without using battery power during brownouts and overvoltages.

•Output power factor 0.8

HPR is a high-density UPS with output power factor 0.8 to provide higher performance and efficiency to critical applications.

•Hot-swappable battery design

This design ensures clean and uninterrupted power to protected equipment during battery replacement.

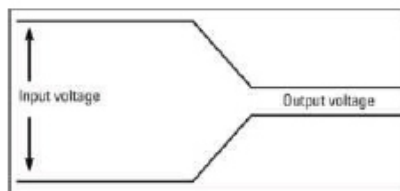
•ECO operation for energy saving

(Efficiency Corrective Optimizer)

The ECO function allows cost-effective operation of UPS Systems as high as 99%. In this operation mode, load is supplied by the mains. In the event of a mains failure, the inverter takes over the load and provides supply continuity to the connected systems.

•Wide input voltage range

HPR UPS have a very wide input voltage range of up to 110-300V, optimized to improve compatibility with engine generator sets and reduce the numbers of transfer to battery power. The batteries are used only for the most serious incidents, maximizing available backup time and extending battery life.



•Multiple communication available

- USB port
- RS-232 port
- SNMP slot (option)

We also offer free monitoring software, WinPower, downloaded from the internet. This advanced networking software supports various operating systems and multiple languages.

The solution for

- > Professional and IT equipment
- > Servers and networking devices
- > CAD / graphic workstations with monitors and peripherals
- > Control systems

Technology

- > VFI "online double conversion"

Certifications

- > TLC / CQC / CE

Advantages



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HP11 Tower series—from 1kVA to 3kVA

Complete solution for IT infrastructures



Features

- 1KVA/2KVA/3KVA online UPS
- True double-conversion
- Accepts dual-mains inputs for special power environment with high Voltage and Low Voltage
- Complete galvanic isolation design offers full isolation and complete common mode noise rejection
- Wide input voltage range (176-288VAC) at full load
- Selectable output voltage at 220VAC or 230VAC or 240VAC
- Input power factor correction 0.99
- Output voltage regulation $< \pm 1\%$
- Mini slot for USB / RS-232 / AS400 / SNMP communication
- Smart battery charger design for optimized battery performance

Technical data

MODEL		HP1101B / H	HP1102B / H	HP1103B / H
CAPACITY		1000 VA / 800 W	2000 VA / 1600 W	3000 VA / 2400 W
INPUT				
Voltage Range		110 - 300 VAC (Auto sensing)		
Frequency Range		45Hz ~ 55 Hz or 56Hz ~ 65 Hz		
Phase		Single phase with ground		
Power Factor (nominal output @ full load)		≥ 0.99		
OUTPUT				
Output Voltage		208/220/230/240 VAC		
AC Voltage Regulation (Static)		± 1%		
Frequency Range (Synchronized Range)		48~ 52 Hz or 58 ~ 62 Hz		
Frequency Range (Batt. Mode)		50 Hz ± 0.2 Hz or 60Hz ± 0.2 Hz		
Current Crest Ratio		3:1		
Harmonic Distortion		≤ 2 % THD (Linear Load), ≤ 6 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero		
	AC Mode to Bypass	4 ms (Typical)		
Waveform (Batt. Mode)		Pure sinewave		
EFFICIENCY(Peak)				
AC Mode (@100% RCD load)		88% (Typical); 89% (Peak)	88% (Typical); 89% (Peak)	89% (Typical); 90% (Peak)
Battery Mode(@100% RCD load)		90% (Typical); 91% (Peak)	90 % (Typical); 91% (Peak)	91 % (Typical); 92% (Peak)
BATTERY				
Standard Model	Battery Type	12V / 9Ah	12V / 9Ah	12V / 9Ah
	Battery Numbers	2	4	6
	Typical Recharge Time	5 hours recover to 90% capacity		
	Charging Current (max.)	1.0 A		
	Charging Voltage	27.4 VDC ± 1%	54.8 VDC ±1%	82.2 VDC ±1%
Long-run Model	Battery Type and Numbers	Depending on applications		
	Charging Current (max.)	4A or 8A		
	Charging Voltage	41.1 VDC ± 1%	82.2 VDC ±1%	109.6 VDC ±1%
INDICATORS				
LED Panel		UPS status, Load level, Battery level, and Fault conditions		
ALARM				
Battery Mode		Sounding every 4 seconds		
Low Battery		Sounding every second		
Overload		Sounding twice every second		
Fault		Continuously sounding		
PHYSICAL				
Standard Model	Dimension, D x W x H(mm)	146*360*227	193*400*327	193*400*327
	Net Weight (kgs)	10	18	24
Long-run Model	Dimension, D x W x H(mm)	146*360*227	193*400*327	193*400*327
	Net Weight (kgs)	6	9	9.5
ENVIRONMENT				
Operation Humidity		20-95 % RH @ 0- 40°C (non-condensing)		
Noise Level		Less than 50dBA @ 1 Meter		
MANAGEMENT				
Communication		RS232 Card / Optional USB Card, SNMP Card, or AS400 Card available		
		Supports Windows2 000/2003/XP/Vista/2008, Windows2 7, Linux, Unix, and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

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HP11 Tower series—from 6kVA to 20kVA

Complete solution for IT and industrial applications



Features

- True double-conversion on line UPS
- DSP technology guarantees high performance
- Output power factor 0.8
- Standard backup UPS and long backup UPS in one integrated unit
- Adjustable battery number from 16 pcs to 20 pcs
- Adjustable charging current via software (0.5A~6A)
- Wide input voltage range (110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- 3-stage extendable charging design for optimized battery performance
- Maintenance bypass available
- SNMP/USB/RS-232 communications

MODEL		HP1106B(H)	HP1110B(H)
PHASE		1 phase in / 1 phase out	
CAPACITY		6000 VA / 4800 W	10000 VA / 8000 W
INPUT			
Voltage Range	Low Line Transfer	110 VAC \pm 3% at 50% Load 176 VAC \pm 3% at 100% Load	
	Low Line Comeback	120 VAC \pm 3% at 50% Load 186 VAC \pm 3% at 100% Load	
	High Line Loss	300 VAC \pm 3%	
	High Line Comeback	290 VAC \pm 3%	
Frequency Range		46Hz ~ 54 Hz or 56Hz ~ 64 Hz	
Power Factor		0.99 @ 100% load	
OUTPUT			
Output Voltage		208/220/230/240VAC	
AC Voltage Regulation		\pm 1%	
Frequency Range (Synchronized Range)		46Hz ~ 54 Hz @ 50Hz system ; 56Hz ~ 64 Hz @ 60Hz system	
Frequency Range (Batt. Mode)		50 Hz \pm 0.1 Hz or 60 Hz \pm 0.1 Hz	
Current Crest Ratio		3:1 (max.)	
Harmonic Distortion		3 % THD (Linear Load), 6 % THD (Non-linear Load)	
Transfer Time	Bypass to Inverter (Line mode)	0ms	
	Inverter to Bypass (Line mode)	0ms	
Waveform (Batt. Mode)		Pure Sinewave	
EFFICIENCY			
Line Mode		90%	
Battery Mode		89%	
BATTERY			
Standard Model	Battery Type	12 V / 7 AH	12 V / 9 AH
	Numbers	16 pcs	16 pcs
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current	Default:1.0 A \pm 10%, Max.:2.0A \pm 10%	Default:1.0 A \pm 10%, Max.:2.0A \pm 10%
Long-run Model	Float Charging Voltage	218.4 VDC \pm 1%	
	Battery Type	Depending on applications	
	Numbers	16-20 pcs (adjustable)	
	Charging Current	Default:4.0 A \pm 10%, Max.:8.0A \pm 10%	Default:4.0 A \pm 10%, Max.:8.0A \pm 10%
		218.4 VDC \pm 1% (based on 16 pcs batteries)	
INDICATORS			
LED Panel		UPS status, Load level, Battery level, and Fault conditions	
ALARM			
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every second	
Overload		Sounding twice every second	
Fault		Continuously sounding	
PHYSICAL			
Standard Model	Dimension, D x W x H(mm)	530 x 250 x 608	530 x 250 x 608
	Net Weight (kgs)	57	65
Long-run Model	Dimension, D x W x H(mm)	515 x 245 x 455	515 x 245 x 455
	Net Weight (kgs)	18	20
ENVIRONMENT			
Operation Humidity		0-95 % RH @ 0- 40°C (non-condensing)	
Noise Level		Less than 55dBA @ 1 Meter	Less than 58dBA @ 1 Meter
MANAGEMENT			
Smart RS-232		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC	
Optional SNMP		Power management from SNMP manager and web browser	

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