

## HP SERIES

6kVA ~ 10kVA



### Features

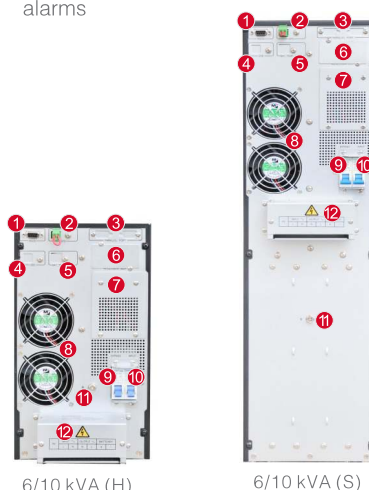
- Advanced DSP and 3-level technology
- Output power factor 0.9 / 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 94% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

### Available Options

- In-built isolation transformer either at input or output
- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

### Rear Panel

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover

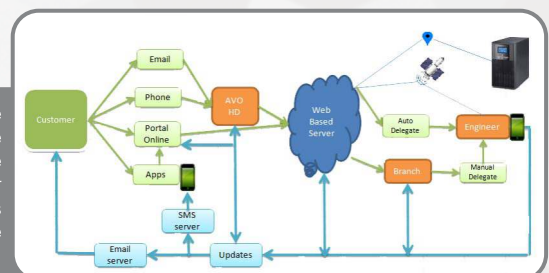


## Specifications

MODEL	HP 1005 / HP 1006		HP 1010 / 10KVAH	
Capacity	6 kVA / 5.4 kW	6 kVA / 6 kW	10 kVA / 9 kW	10 kVA / 10 kW
<b>INPUT</b>				
Input wiring	Single-phase three-wire (1 $\Phi$ + N + PE)			
Rated voltage	208 / 220 / 230 / 240 Vac			
Voltage range	140 ~ 270 Vac			
Rated frequency	50 / 60 Hz (auto-sensing)			
Frequency range	40 ~ 70 Hz			
Power factor	$\geq 0.99$			
Bypass voltage range	- 40% ~ +15% (settable)			
Total harmonic distortion (THDi)	$\leq 5\%$			
<b>OUTPUT</b>				
Output wiring	Single-phase three-wire (1 $\Phi$ + N + PE)			
Rated voltage	208 (PF=0.9) / 220 / 230 / 240 Vac			
Voltage regulation	$\pm 1\%$			
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz $\pm 0.1\%$ Hz in battery mode			
Waveform	Sinusoidal			
Power factor	1			
Total harmonic distortion (THDv)	$\leq 2\%$ (liner load) ; $\leq 5\%$ (non-liner load)			
Crest factor	3:1			
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 s			
<b>BATTERIES</b>				
DC voltage	168 / Vdc / 192 Vdc / 240 Vdc (settable)			
Number of battery	14 pcs / 16 pcs / 20 pcs (16~20 settable)			
Charging current	Standard model: 1 A; Long time model: 5 A (default), 1 ~ 5 A settable, 12 A (optional; PF 0.9)			
Recharge time	Standard model: 90% capacity restored in 8 hours; Long time model: depend on the capacity of battery			
<b>SYSTEM</b>				
Efficiency	$\geq 92\%$ at 100% load, max. 94% at 60% load, $\geq 98\%$ in ECO mode			
Transfer time	0 ms			
Protections	Short-circuit, overload, overtemperature, battery low voltage, overvoltage, undervoltage and fan failure			
Max. number of parallel connections	4			
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP / battery temperature compensation (optional)			
Display	LCD + LED			
<b>OTHERS</b>				
Operating temperature	0°C ~ 40°C			
Storage temperature	-25°C ~ 55°C (without battery)			
Relative humidity	0 ~ 95% (non-condensing)			
Altitude	$\leq 1000$ m, derating 1% for each additional 100 m			
IP rating	IP 20			
Noise level at 1 m	$\leq 55$ dB		$\leq 58$ dB	
Dimensions (W x D x H) (mm)	191 x 465 x 711 (S) , 191 x 465 x 350 (H)		191 x 495 x 711 (S), 191 x 495 x 350 (H)	
Packaged dimensions (W x D x H) (mm)	310 x 654 x 941 (S), 318 x 595 x 475 (H)		310 x 685 x 941 (S), 318 x 617 x 475 (H)	
Net weight (kg)	53 (S) , 14.5 (H)		62 (S) , 16.5 (H)	
Gross weight (kg)	61 (S) , 16 (H)		70 (S) , 18 (H)	

- S means standard model; H means long time model.
- All specifications are subject to change without notice.

AVO has developed state of the art and very customized web based e-CRM for all its service operations. The unique software allows the Clients to log the call themselves. The Best feature of the software is it automatically delegates the calls to the field engineers depending upon the database of engineers as per location & past records and subsequently tracks the engineer location and site location through GPS. Customers get automated mails on current progress and are also able to track the engineer who is going to attend the call. An SMS alert to update the call status is also sent to the customer.



Regional Office : #8/2, 2nd Cross, Kushalappa Layout, Bhuvaneshwari Nagar, R.T. Nagar Post, Bangalore - 560 032, Karnataka.  
 Regd. Office : #230, S.N. Roy Road, Kolkata 700 038. | Head Office : #97, Raja Ram Mohan Roy Road, Kolkata - 700 041 (India).  
 Phone : +91 96061 79991/ 033 6518 1192 | Fax : +91 33 2400 1420 | Email : BangaloreSales@avoups.com