

**AVO RM SERIES  
5KVA-10KVA (1:1)**

**Features**

- Rack/Tower convertible design
- Online double conversion
- Wide input voltage range: 110-300Vac
- Input power factor 0.99 with PFC
- selectable output voltage: 200/220/230/240Vac
- smart charger design for optimized battery performance
- Maximum charging current can be expanded to 12A (Long run unit)
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Hot-Swappable battery design
- Cold start
- Intelligent fan speed regulation
- Load segment settable (Optional)
- Versatile LCD human-computer interface
- Multiple communication interface: RS232 (USB/EPO/Dry contact/SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



Optional socket



Dry contact card



SNMP

<b>MODEL</b>	<b>HP1005</b>	<b>HP1006</b>	<b>HP1010</b>
Capacity (VA/Watts)	5000VA/4500W	6000VA/5400W	10000VA/9000W
Rating	5KVA	6KVA	10KVA
Technology	IGBT based double conversion PWM based online UPS		
Parallel mode	3 (N+1)		
Form Factor	Rack/Tower Convertible		
<b>INPUT</b>			
System Rated Voltage	230vac 1-Phase,3 wire		
Voltage Range	175VAC -275VAC at full load, 110VAC to 280VAC at half load		
Rated Frequency	50Hz/60Hz		
Frequency Range	40Hz ~ 70Hz		
Power Factor	0.99		
<b>OUTPUT</b>			
Rated power	5kVA/5kW	6kVA/6kW	10kVA/10kW
Output Voltage	Single phase, 230VAC		
Frequency synchronization range	Rated frequency±3Hz. Configurable range: ±0.5Hz ~ ±5Hz		
Rated Power Factor	Unity		
Crest Factor	03:01		
Voltage Harmonic Distortion	< 2% (linear load)		
Voltage Regulation	1%		
Wave form	Pure Sinewave		
Dynamic response recovery time	60ms		
Inverter Overload Capability on utility mode	At 25°C: 105% ~ 125%- 5min; 125% ~ 150%-1min; 150%- more than 200ms		
Static bypass	Inbuilt		
<b>Bypass</b>			
Separate Bypass	Inbuilt/External		
<b>EFFICIENCY</b>			
Online mode (AC-AC)	Online mode (AC-AC) - > 93% and >= 98% on Eco Mode		
<b>BATTERY</b>			
Type	SMF-VRLA/ Li-Ion /LFP		
Rated Voltage	192VDC /240VDC		
Battery charging capacity	Min 0.1 of battery AH		
<b>Transfer Time</b>			
Mains - Battery	0ms		
Inverter-Bypass	Synchronous Transfer: ≤0 ms; Asynchronous transfer default: ≤20mS		

<b>Noise</b>	
Acoustic Noise level	<65db
<b>Panel display mode</b>	
Display type	Graphical LCD display
Parameter	Input-Voltage /Current /Power /Output Voltage/ Current/Power /Load% Battery Voltage / Current etc.
<b>Environmental parameter</b>	
Operating temperature	0°C ~ 40°C (75% efficiency above 40°C)
Storage temperature	-40°C ~ +70°C (battery excluded); - 25°C ~ +55°C (battery included)
Relative humidity	5%RH ~ 95%RH, non-condensing
Altitude	≤1000m; derating when higher than 1000m
Weight (Kg)	≤20 Kg
Ventilation	Forced -air cooled
Ingress protection level	IP20
Color	Powder coated Black Texture finish
Cable entry	Rear
UPS & Battery Cabinet	Integrated Single IP20 cabinet for mounting UPS & Battery, both UPS and Battery should be in single cabinet.
<b>Network Management</b>	
Smart RS232/USB	Supports latest Windows, Linux, Unix and MAC
Webpage monitoring	Inbuilt / External Support HTTP
MODBUS	Inbuilt / External for BMS connectivity
Dry Contacts	Inbuilt / External for battery low, fault, mains fail, emergency power off
Optional SNMP	Power management
<b>Certifications</b>	
Electromagnetic Compatibility (EMC)	IEC/EN62040-2, IEC/EN61000-3-3
Surge Protection	IEC/EN62040-2, meeting IEC/EN61000-4-5
ROHS	Yes
Quality standard	ISO 9001
Environment standard	ISO 14001
OSHAS	ISO 45001
BIS	Yes

AVO has developed state of the art and vary 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.

