



UPS | SOLAR POWER SOLUTIONS | ENERGY SAVING SOLUTIONS

AVO RM SERIES 1KVA-3KVA (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

MODEL	HP1KL	HP302	HP3KL
Capacity (VA/Watts)	1000VA/900W	2000VA/1800W	3000VA/2700W
Rating	1KVA	2KVA	3KVA
Technology	IGBT based double conversion PWM based online UPS		
Form Factor	Rack/Tower Convertible		
INPUT			
System Rated Voltage	220 Vac		
Voltage Range	175Vac ~ 275Vac at full load, 80Vac ~ 176Vac linear increasing, 110Vac at half load		
Rated Frequency	50 Hz		
Frequency Range	45Hz ~ 65Hz		
Power Factor	≥ 0.99 at full load; ≥0.97 at half load;; ≥0.94 at 30% load		
OUTPUT			
Rated power	1000VA/900W	2000VA/1800W	3000VA/2700W
Output Voltage	220Vac/230Vac/240Vac, 220Vac by default		
Frequency synchronization range	Rated frequency±3Hz		
Frequency track rate	1 Hz/s		
Power Factor	0.9		
Crest Factor	03:01		
Voltage Harmonic Distortion (THDv)	≤3% with linear load		
	≤5% with non-linear load		
Wave form	Pure Sinewave		
Overload Capacity on Normal Mode	105% ~ 125%, 1min; 125% ~ 150%, 30sec;		
EFFICIENCY			
Mains Efficiency	91% or above and 96% or above on Eco Mode		
BATTERY			
Type	SMF-VRLA/ Li-Ion /LFP		
Rated Voltage	36 VDC	72VDC	72 VDC/96 VDC
Charge Current	Min 0.1 of battery AH		
Transfer Time			
Mains - Battery	0ms		
Inverter-Bypass	Synchronous transfer: less than 1ms		

Noise	
Acoustic Noise level	<55db
Panel display mode	
Display type	Colourful LCD
Parameter	Input-Voltage /Current/ Power/ Output- Voltage/ Current/ Power/ Load% Battery Voltage / Current etc
Environmental parameter	
Operating temperature	0°C ~ 40°C (75% efficiency above 40°C)
Storage temperature	-20°C ~ +60°C (battery excluded); -15°C ~ +40°C (battery included)
Relative humidity	5%RH ~ 95%RH, non-condensing
Altitude	≤1000m; derating when higher than 1000m
Weight	Not more than 10 Kg Long Backup
Ventilation	Forced -air cooled
Ingress protection level	IP20
UPS & Battery Cabinet	Integrated Single IP 20 Cabinet for mounting UPS & Battery, both UPS and Battery should be in single cabinet.
Cable entry	Rear
Network Management	
Intelligent Card Port	For connecting Modbus card
USB port	Built-in
Ethernet Port	Inbuilt / External Support HTTP
Dry Contacts	Inbuilt / external for battery low, fault, mains fail, emergency power off
Optional SNMP	Power management from SNMP manager and web browser
Complying Standards	
Safety (CE)	IEC/EN 62040-1:2008+A1:2013
Electromagnetic Compatibility (EMC)	Conducted Emission: IEC/EN 62040-2 C2, Harmonic current: IEC/EN 61000-3-2
Surge Protection	IEC/EN 61000-4-5
BIS	Yes
ROHS	Yes

developed state of the art and very customized web based e-CRM for all its services. 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 location of engineers, as per location & past records and subsequently tracks the engineer and site location through GPS. Customers get automated mails on current progress and also able to track the engineer who is going to attend the call. An SMS alert to update the status is also sent to the customer.

