SWITCHING AVO ELECTRO POWER LIMITED

UPS || SOLAR POWER SOLUTIONS || ENERGY SAVING SOLUTIONS

AVO RM SERIES

5-10KVA (3:1/1:1)

ROTABLE LCD PANEL

Features

- Rack/Tower convertible design
- Online double conversion with full digital control
- Wide input voltage range:110-300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- 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 selectable power outlet.

Multifunctional bracket

The LCD panel can be rotated

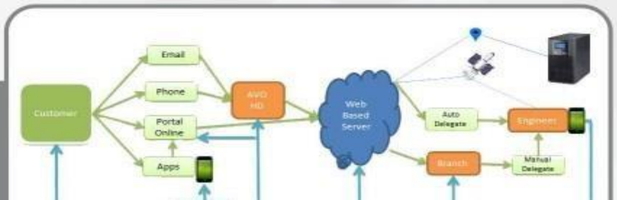
Dry contact card

SNMP

TECHNICAL SPECI FICATIONS 5-10KVA (3:1/1:1)

MODEL 5-10KVA (3:1/1:1)	RM- HP1005	RM- AVO1006	RM-10KVAH
Capacity (VA/Watts)	5000VA/5000W/4500W	6000VA/6000W/5400	10000VA/10KW/9KW
Form Factor	3U/4U		
INPUT			
Nominal Voltage	380/400/415 VAC (3ø + N + PE) | 208/ 220/230/240Vac(L+N+PE)		
Operating Voltage Range	110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load, 305 ~ 499 VAC (no derating) | 140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load		
Operating Frequency Range	50Hz : 45~55Hz, 60Hz : 55-65Hz Auto Sensing		
Power Factor	≥0.99		
Input Plug	Screw Terminal		
OUTPUT			
Output Voltage	208/220/230/240Vac:230Vac(Default)		
Power Factor	0.9/1		
Output Plug	Screw Terminal		
Voltage Regulation	±1%		
Frequency – Synchronized Range	45-55Hz ±0.02Hz@ 50Hz, 55-65Hz ±0.02Hz@60Hz		
Frequency – Battery Mode & None Synchronized Range	50/60Hz±0.1%(Free running)		
Crest Factor	03:01		
Harmonic Distortion (THDv)	≤3% with linear load		
	≤5% with non-linear load		
Wave form	Pure Sinewave		
Transfer time	Utility to Battery : 0ms; Utility to Bypass: 0ms(Typical)		
EFFICIENCY			
AC Mode	>/=95%	>/=95%	>/=95%
ECO Mode	>/= 98%		
BATTERY			
Numbers	16/18/20		
Maximum Charging Current (A)	1,2,4,6,8,16 A	1,2,4,6,8,16 A	1,2,4,6,8,16 A
DC Voltage(Vdc)	±96VDC/±108VDC/±120VDC		

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



Protect	Over-voltage(14.7v) /Low-voltage(10v)

PROTECTION				
Overload Capacity	Line Mode	≤105% : Continuous Operations ; 105-125% : for 10mins , 125-150 % : for 1 Mins ; >150% 300ms turn to bypass mode		
	Battery Mode	105%-150%, exceed 60s shutdown ; >150% exceed 300ms shutdown		
INDICATORS				
LED & LCD Display		Load/Battery/Input/Output/Operating Mode Information		
ALARM				
Battery Mode		Sounding every 4 seconds		
Battery Low		Sounding every second		
Overload		Sounding every 0.5 second		
Fault		Continuously Sounding		
MANAGEMENT				
Smart RS-232/USB (Preferential)		External Modbus card supported by RS232,Software supports Windows Family, Linux, FreeBSD,		
Intelligent Slot		SNMP (Standard or mini) independent to RS-232(Optional)		
ENVIRONMENT				
Operating Temperature		0°C～40°C		
Humidity Range		0～95% (Non-condensing)		
Altitude		< 1500m,		
Noise Level		<50dB@ 1Meter		
PHYSICAL				
DEGREE OF PROTECTION		**IP20/IP21**		
Dimension W×D×H (mm)		443×580×131	443×580×131	443×580×131
Net Weight (kg)		24	24	25
STANDARDS				
CERTIFICATIONS		**ISO9001:2015 , ISO14001:2015 , ISO 27001:2022 , ISO/IEC 20000-1:2011 , ISO 45001:2018 , ISO50001:2018**		
Safety		IEC/EN62040-1		
EMC		IEC/EN62040-2		

*All specification are subjected to change without notice.

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