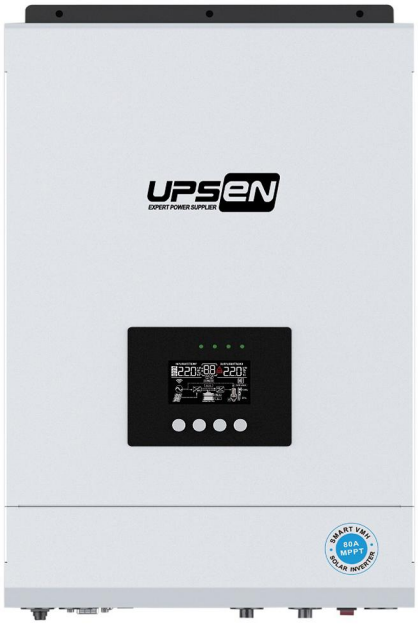
RS VMH 3KW - 5KW

Off-Grid Solar Inverter RS VMH Series

RS VMH Series 3KW - 5KW (1ph in / 1ph out)



Key Features:

- Pure sine wave output, Work without Battery
- 450V wide PV circuit voltage can work for the load without battery connected (when the energy is sufficient)
- Built in MPPT solar controller
- Configurable AC/Solar input priority and output priority via LCD settings
- Wide and selectable AC input voltage range
- Multiple protections of battery over discharge, overload, over temperature, short circuit
- Automatically turn on after the mains is restored
- Cold start function; USB and RS232 monitoring functions
- WIFI and Bluetooth intelligent monitoring function, support mobile APP to view various data (optional)

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Technical Specification:

Model	RS VMH 3024	RS VMH 3048	RS VMH 5048
Rated Capacity	3000VA / 3000W		5000VA / 5000W
INPUT			
Input Format	L+N+PE		
Rated Input Voltage	208 / 220 / 230 / 240VAC		
Voltage Range	170~280VAC(For Personal Computers); 90~280VAC(For Home Appliances)		
Frequency Range	50Hz / 60Hz(Auto Sensing)		
OUTPUT			
Output Format	L+N+PE		
Rated Output Voltage	208 / 220 / 230 / 240VAC ± 5%		
Output Frequency	50 / 60Hz ± 0.1%		
Waveform	Pure Sine Wave		
Transfer Time	10ms(For Personal Computers) , 10ms(For Home Appliances)		
Peak Power	6000VA	6000VA	10000VA
Overload Capacity	Battery Mode: 1min@102%~110% Load / 10s@110%~130%Load 3s@130%~150% Load / 200ms@>150% Load		
Peak Efficiency (Battery Mode)	>93%	>94%	>94%
BATTERY			
Rated Voltage	24 VDC	48 VDC	48 VDC
Constant Charging Voltage (Can Be Set)	28.2 VDC	56.4 VDC	56.4 VDC
Float Charging Voltage (Can Be Set)	27 VDC	54 VDC	54 VDC
SOLAR CHARGER & AC CHARGER			
Solar Charger Type	MPPT	MPPT	MPPT
PV Maximum Input Power	4000W	4000W	5500W
MPPT Tracking Range	120~430 VDC	120~430 VDC	120~430 VDC
Maximum PV Input Voltage	450 VDC	450 VDC	450 VDC
Maximum PV Charge Current	80 A	80 A	80 A
Maximum Mains Charging Current	60 A	60 A	80 A
Maximum Charging Current	80 A	80 A	80 A
COMMUNICATION INTERFACE			
RS232	Baud Rate 2400		
Expansion Slot Communication Interface	2*5PIN / Pitch 2.54mm, Lithium Battery BMS Communication Card, WIFI and Bluetooth Card, Dry Contact card, Etc.		
Parallel Interface	No Parallel		With Parallel
Environmental Parameters			
Operating Ambient Temperature	0~40℃		
Operating Environment Humidity	20%~95% (Non-Condensing)		
Storage Temperature	-15~60℃		
Altitude	Altitude Should Not Exceed 1000m, Derating Above 1000m, Maximum 4000m, Refer to IEC62040		
Noise	≤50db		
PHYSICAL PARAMETERS			
D*W*H(mm)	110*300*450		
Weight (For Reference)	7KG	7KG	7.8KG
STANDARDS	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1		
*Product Specifications are Subject to Change Without Notice.			