

VM SERIES INVERTER

HYBRID INVERTERS (HIGH VOLTAGE)

- Detachable LCD control module with various communications
- Integrated Bluetooth interface with Android App
- Reserved communication port (RS-485, CAN-BUS or RS-232) for BMS
- Battery equalization extends lifecycle
- Battery independency
- User-friendly LCD operation
- Replaceable fan design



TECHNICAL SPECIFICATIONS

MODEL	VM 3K 450VDC	VM 5K 450VDC
Rated power	3000VA/3000W	5000VA/5000W
INPUT		
Voltage	230 VAC	
Selectable voltage range	170-280 VAC (for personal computers) 90-280 VAC (for home appliances)	
Frequency range	50Hz/60Hz (auto sensing)	
OUTPUT		
AC voltage regulation (batt. mode)	230VAC \pm 5%	
Overload	6000VA	10000VA
Efficiency (peak)	90-93%	
Transfer time	15 ms (for personal computers); 20 ms (for home appliances)	
Wave form	Pure sine wave	
BATTERY		
Battery voltage	24 VDC	48 VDC
Floating charge voltage	27 VDC	54 VDC
Overcharge protection	33 VDC	63 VDC
SOLAR CHARGER & AC CHARGER		
Solar charge type	MPPT	
Maximum PV array open circuit voltage	500 VDC	
Maximum PV array power	4000 W	5000 W
MPP range @ operating voltage	120 VDC ~450 VDC	
Maximum solar charge current	100 A	
Maximum AC charge current	100 A	
Maximum charge current	100 A	
PHYSICAL		
Dimensions HxWxD (mm)	400x300x115	
Net weight (kg)	9.0	10.0
Communication interface	USB/RS232/RS485/Bluetooth/Dry contact	
ENVIRONMENT		
Humidity	5% - 95% (non condensing)	
Operating temperature	0°C – 55°C	
Storage temperature	-15°C – 60°C	