

Single Phase Hybrid Inverter

VMS-V-12K-48-H/HG

SOERIC



Dual MPPT with 500VDC Max voltage input and 150A Max PV charging



Parallel up to 6 units



Wifi monitoring enabled



Lithium ion battery and BMS compatibility



Detachable dust cover

Technical Data

Parameter

VMS-V-12K-48-H/HG

AC INPUT / OUTPUT

Rated Power	12000 W
Voltage	220 / 230 / 240 VAC
Output Waveform	Pure Sine Wave
Frequency Range	50 / 60 Hz
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)
Transfer Time	10 ms (For Personal Computers), 20 ms (For Home Appliances)

GRID-TIE OUTPUT

Feed-in Grid Voltage Range	195–253 VAC
Feed-in Grid Frequency Range	49~51±1HZ/59~61±1HZ
Maximum Load	12000 W

BATTERY & AC CHARGER

Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC

SOLAR CHARGER & MPPT

Solar Charger Type	Dual MPPT
Maximum PV Array Power	12000 W (6000W × 2)
Max Solar Charging Current	150 A
MPPT Operating Voltage Range	90–450 VDC
Max AC Charging Current	150 A
Maximum PV Input Current	27A × 2 (Max 40A)
Maximum PV Open Circuit Voltage	500 VDC

COMMUNICATION & SYSTEM

BMS Communication Interface	RS485
APP Monitoring Interface	RS485
Parallel Function	Optional (Up to 6 units)

PHYSICAL

Dimensions (D × W × H)	147 × 432 × 553 mm
Net Weight	18.4 kg

OPERATING ENVIRONMENT

Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10 °C - 50 °C
Storage Temperature	-15 °C - 60 °C