









High Frequency Hybrid MPPT Inverter

SUNINVM HF-Pro Series



-  Small size and light weight
-  Bluetooth App connected, power generation at any power generation at any time to watch
-  Fanless design, natural heat dissipation
-  Friendly connection to the power grid, more coordinated response
-  Mobile intelligent cloud monitoring, simple operation and maintenance
-  Power generation does not use electricity, and the efficiency is visible

- Rated output voltage
- Rated input frequency
- Maximum DC input voltage
- Rated on-load power

140A
MAX PV
CHARGING

PURE
SINE WAVE

WORKS
WITH AND WITHOUT
BATTERY

UPGRADED
MPPT

LI-ION

BUILT IN
ANTI DUST
KIT

Specification

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 🌐 www.vmaxpowerpv.com



MODEL	SUNINVM HF-Pro 2.2K	SUNINVM HF-Pro 3.2K
Phase	1-phase	1-phase
Maximum PV Input Power	2000W	3200W
Rated Output Power	2000W	3200W
Maximum Solar Charging Current	80A	80A
GRID-TIE OPERATION		
PV Input(DC)		
Nominal DC Voltage/Maximum DC Voltage	240VDC/400VDC	
Start-up Voltage/Initial Feeding Voltage	30VDC/60VDC	
MPPT Voltage Range	30VDC~400VDC	
Number of MPPT Trackers/Maximum Input Current	1/16A	
GRID OUTPUT(AC)		
Nominal Output Voltage	220/230/240VAC	
Output Voltage Range	195~253VAC	
Nominal Output Current	10A	15A
Power Factor	>0.99	
EFFICIENCY		
Maximum Conversion Efficiency(DC/AC)	98%	
TWO LOAD OUTPUT POWER		
Full Load	2000W	3200W
Maximum Main Load	2000W	3200W
Main Load Cut Off Voltage	10~13.5VDC	20~26 VDC
Main Load Return Voltage	13.5VDC	27VDC
OFF-GRID OPERATION		
AC INPUT		
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC	
Acceptable Input Voltage Range	90-280VAC or 170-280VAC	
Maximum AC Input Current	11A	16A
Nominal operating frequency	50/60Hz	
Surge power	4400W	6400W
PV INPUT(DC)		
Maximum DC Voltage	500VDC	
MPPT Voltage Range	120VDC~450VDC	120VDC~450VDC
Number of MPPT Trackers/Maximum Input Current	1/27A	
BATTERY MODE OUTPUT(AC)		
Nominal Output Voltage	220VAC	
Output Waveform	Pure sine wave	
Efficiency(DC to AC)	91%	
BATTERY & CHARGER		
Nominal DC Voltage	12VDC	24VDC
Maximum Solar Charging Current	80A	80A
Maximum AC Charging Current	60A	60A
GENERAL		
PHYSICAL		
Dimension,D X W X H(mm)	360*275*108	
Cartoon Dimension,D X W XH(mm)	440*340*180	
Net Weight(kgs)	5.6kg	6kg
Gross Weight(kgs)	6.1kg	6.5kg
INTERFACE		
Communication Port	RS232/WIFI/Remove LCD/GPRS	
ENVIRONMENT		
Operating Temperature	-10 ~50°C	

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MODEL	SUNINVM HF-Pro 3.6K	SUNINVM HF-Pro 4.2K	SUNINVM HF-Pro 6.2K
Phase	1-phase		
Maximum PV Input Power	3600W	4200W	6200W
Rated Output Power	3600W/3600VA	4200W/4200VA	6200W/6200VA
Maximum Solar Charging Current	100A	120A	120A
GRID-TIE OPERATION			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
GRID OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195~253VAC		
Nominal Output Current	15.8A	18.2A	26.2A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	3600W	4200W	6200W
Maximum Main Load	3600W	4200W	6200W
Main Load Cut Off Voltage	22VDC	22VDC	44VDC
Main Load Return Voltage	24VDC	24VDC	48VDC
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	20A	20A	30A
Nominal operating frequency	50/60Hz		
Surge power	7200W	8400W	12400W
PV INPUT(DC)			
Maximum DC Voltage	500VDC		
MPPT Voltage Range	60VDC~450VDC	60VDC~450VDC	90VDC~450VDC
Number of MPPT Trackers/Maximum Input Current	1/27A		
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	220VAC		
Output Waveform	Pure sine wave		
Efficiency(DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	24VDC	24VDC	48VDC
Maximum Solar Charging Current	120A	120A	120A
Maximum AC Charging Current	80A	80A	80A
GENERAL			
PHYSICAL			
Dimension,D X W X H(mm)	430*330*110		
Cartoon Dimension,D X W XH(mm)	485*385*180		
Net Weight(kgs)	8.5kg	8.5kg	9.3kg
Gross Weight(kgs)	9.7kg	9.7kg	10.5kg
INTERFACE			
Communication Port	RS232/WIFI/Remove LCD/GPRS		
ENVIRONMENT			
Operating Temperature	-10 ~50°C		



MODEL	SUNINVM HF-Pro 7.2K	SUNINVM HF-Pro 8.2K	SUNINVM HF-Pro 10.2K
Phase	1-phase		
Maximum PV Input Power	8200W	8200W	10200W
Rated Output Power	7200W/7200VA	8200W/8200VA	10200W/10200VA
Maximum Solar Charging Current	160A	160A	180A
GRID-TIE OPERATION			
PV Input(DC)			
Nominal DC Voltage/Maximum DC Voltage	360VDC/500VDC		
Start-up Voltage/Initial Feeding Voltage	90VDC/120VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
GRID OUTPUT(AC)			
Nominal Output Voltage	220/230/240VAC		
Output Voltage Range	195~253VAC		
Nominal Output Current	31.3A	35.6A	44.3A
Power Factor	>0.99		
Feed-in Grid Frequency Range	49~51±1Hz		
EFFICIENCY			
Maximum Conversion Efficiency(DC/AC)	98%		
TWO LOAD OUTPUT POWER			
Full Load	7200W	8200W	10200W
Maximum Main Load	7200W	8200W	10200W
Maximum Second Load(battery mode)	2400W	2733W	3400W
Main Load Cut Off Voltage	44VDC	44VDC	44VDC
Main Load Return Voltage	48VDC	48VDC	48VDC
OFF-GRID OPERATION			
AC INPUT			
AC Start-up Voltage/Auto Restart Voltage	120-140VAC/180VAC		
Acceptable Input Voltage Range	90-280VAC or 170-280VAC		
Maximum AC Input Current	40A	40A	50A
Nominal operating frequency	50/60Hz		
Surge power	14400W	16400W	20400W
PV INPUT(DC)			
Maximum DC Voltage	500VDC		
MPPT Voltage Range	90VDC~450VDC		
Number of MPPT Trackers/Maximum Input Current	1/27A		
BATTERY MODE OUTPUT(AC)			
Nominal Output Voltage	48VDC	48VDC	48VDC
Output Waveform	Pure sine wave		
Efficiency(DC to AC)	94%		
BATTERY & CHARGER			
Nominal DC Voltage	48VDC	48VDC	48VDC
Maximum Solar Charging Current	160A	160A	180A
Maximum AC Charging Current	140A	140A	160A
GENERAL			
PHYSICAL			
Machine specification	550*405*135MM		
Packing specification	610*475*230MM		
Net Weight(kgs)	14.8kg		
Gross Weight(kgs)	16.4kg		
INTERFACE			
Communication Port	RS232/WIFI/Remove LCD/GPRS		
ENVIRONMENT			
Operating Temperature	-10 ~50℃		