

HYBRID V / V2 SERIES

220-240V Hybrid Solar Inverter

HV2-3K, 5K

Batteryless support

450V PV Max

HV 3-5K

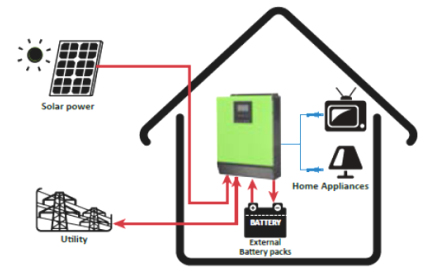
MAIN FEATURES

- NEW! Max PV input up to 450V (V2 only)
- NEW! Parallel support up to 9 units
- NEW! Batteryless operation (V2 only)*
- Pure sine wave output 3-5KW
- Hybrid Mode, Off-Grid Mode available
- Max PV input power up to 6KW max
- Max PV input volt 145V
- Max solar charging up to 120A
- Dual MPPT tracker (HV 5k only)
- Timer charging control
- Supports generator use + genset starter dry contact (grid-tie disabled)**
- Programmable parameters
- Max up to 60A utility charging
- Lightweight, easy to install
- FREE monitoring software
- LCD Display + LED indicators
- USB, RS232 communication interface

*Important: batteries **MUST** be connected when configuring in parallel operation!

**requires inverter-type generator of acceptable output quality

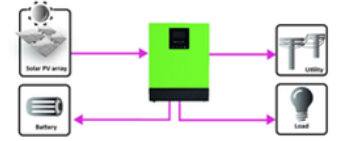
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Three Major Operating Modes

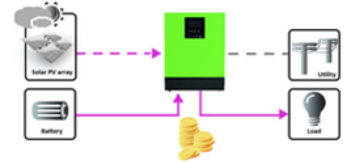
•Feed-in to Grid + Load + Battery Charging

With enough solar power, Hybrid V will convert solar power to power the load and charge the battery. The extra power will feed-in to Grid.



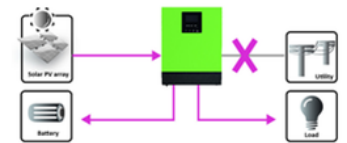
•Pay Less Electricity Bill

With sufficient solar power Hybrid V will convert solar power and get the battery energy to power the load by disconnect Grid automatically. Reduce dependence on Grid and your electricity bill



•Battery Backup when AC Fail

If Grid is not available, Hybrid V will direct power to load from the solar power and the extra solar energy would be used to charge the battery.



HYBRID V/V2 SERIES	3048	4048	5048	V2-3048	V2-5048
STANDARD RATING					
Continuous Output	3000W	4000W	5000W	3000W	5000W
System DC Volt	48V			48V	48V
Parallel Ready	Yes, max 9				
PV INPUT / SOLAR CHARGING					
Max PV Input Power	4000W	4000W	6000W	4000W	5000W
Max PV Input Volt	145VDC (Voc)			450VDC (Voc)	
MPPT Range	60 - 145V			120-430V	
Number of PV Input	1	1	2	1	1
Max Charging Current	80A	80A	120A	60A	80A
GRID TIE MODE					
Nominal Output Volt	220/230/240VAC, Single Phase				
Feed-in Volt Range	184 - 264.5VAC				
Feed-in Volt Frequency	47.5 - 51.5Hz@50Hz / 57-62Hz@60Hz				
Nominal Output Current	13A	17.4A	21.7A	13A	21.7A
Max DC/AC Efficiency	>90%			>95%	
OFF-GRID, HYBRID MODE					
Output Waveform	Pure Sine Wave				
Nominal Output Volt	220/230/240VAC, Single Phase				
Frequency	50 / 60Hz, auto-sensing				
AC Input Transfer Relay	40A				
Max Efficiency	>93%				
Max Utility Charging	60A				
Max Utility + Solar Charging	140A	140A	180A	60A	80A
ENVIRONMENTAL / MECHANICAL SPECIFICATIONS					
Communication Port	USB, RS232/Dry Contact				
Operating Temp.	0 - 50°C				
Operating Humidity	0 - 90% RH (No Condensing)				
Dimension (mm)	468*295*120	483*295*190		468*295*120	
Net Weight (kg)	11	11	16	11	12

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