



SOLAR HYBRID INVERTERS & LITHIUM BATTERY PACKS

***Enjoy the benefits of Solar Off-grid and On-grid
in One Solar Hybrid Inverter***

**Enhanced
Energy Efficiency**

**Eligible for
Subsidy**

**Uninterrupted
Power Supply**

**Future-Proof
Technology**

**10 Year
Warranty***



Direct Servicing by
Company



Infini Series : Solar Hybrid Inverters



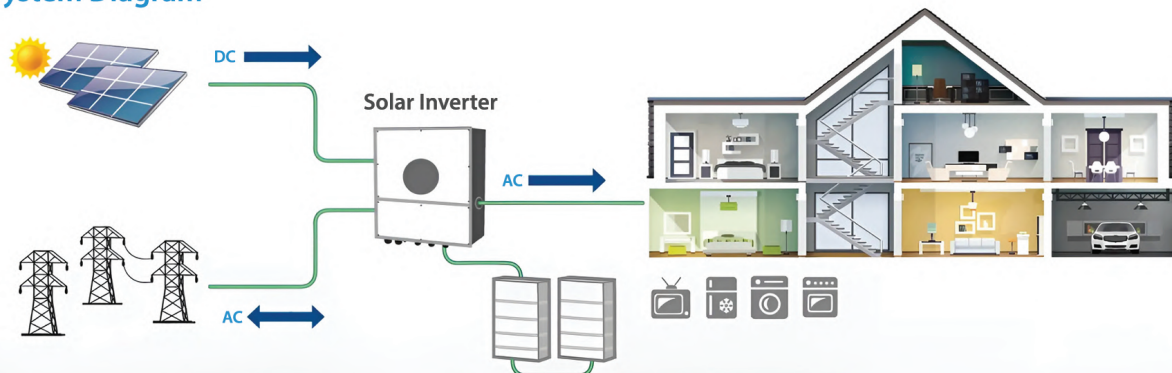
HSH 3KW | HSH 6KW

- ▶ Pure Sinewave Output
- ▶ Built in WiFi for mobile monitoring (APP is available)
- ▶ Programmable Supply Priority for PV, Battery or Grid
- ▶ User adjustable charging current and voltage
- ▶ Built-in MPPT Charger
- ▶ Detachable LCD panel
- ▶ Supports USB on-the-go function
- ▶ Reserve BMS communication
- ▶ Parallel Operation up to 9 units

BENEFITS

- ▶ Hybrid Inverters have both Off-Grid and On-Grid functions
- ▶ The load can operate exclusively from solar, battery or the grid
- ▶ Uninterrupted power supply: Even during poweroutages
- ▶ Enhanced energy efficiency: Optimized energy usage & Peak savings
- ▶ Versatility: Effectively balances generation, storage, and consumption
- ▶ Centralized monitoring of energy production, consumption, and system performance

System Diagram



Technical Specifications

Model	Infini HSH 3 : 3KW Single Phase	Infini HSH 5 : 5KW Single Phase
Phase	1-phase/ 1-phase out	1-phase/ 1-phase out
Max PV Input power	4500W	5750W
Rated Output Power	3000W	5000W
Max Charging power	3000W	5000W
Grid Tie Operation		
PV Input (DC)		
Nominal DC Voltage / Max DC Voltage	360VDC /500 VDC	360VDC /500 VDC
Start up Voltage / Initial Feeding Voltage	120VDC/150 VDC	120VDC/150 VDC
MPPT Voltage Range	120VDC~430VDC	120VDC~430VDC
Number of MPP Trackers/Max.Input Current	1/18A	1/27A
Grid Output (AC)		
Nominal Output Voltage	220/230/240 VDC	220/230/240 VDC
Output Voltage Range	184-264.5 VDC OR 19.5-253 VAC (Selectable)	184-264.5 VDC OR 19.5-253 VAC (Selectable)
Nominal Output Current	13A	26A
Power Factor	>0.99	>0.99
Efficiency		
Maximum Conversion Efficiency (DC/AC)	95%	95%
Off-Grid Operation		
AC Input		
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC/180VAC	120-140 VAC/180VAC
Acceptable Voltage Range	90-280 VAC OR 170-280VAC	90-280 VAC OR 170-280VAC
Frequency Range	50 Hz/60Hz (auto sensing)	50 Hz/60Hz (auto sensing)
Maximum AC Input Current	40A	40A
PV Input (DC)		
Maximum DC Voltage	500VDC	500VDC
MPPT Voltage range	120 VDC ~ 430 VDC	120 VDC ~ 430 VDC
Number of MPP Trackers/ Max Input current	1/18A	1/27A
Battery Mode Output(AC)		
Nominal Output Range	220/230/240 VAC	220/230/240 VAC
Output waveform	Pure Sine wave	Pure Sine wave
Efficiency (DC to AC)	93%	93%
Hybrid Operation		
PV Input (DC)		
Nominal DC Voltage / Max. DC Voltage	360 VDC /500 VDC	360 VDC /500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC /150 VDC	120VDC /150 VDC
MPPT Voltage range	120VDC ~ 430 VDC	120VDC ~ 430 VDC
Number of MPP Trackers/ Max Input current	1/18A	1/27A
Grid Output (AC)		
Nominal Output Current	13 A	27 A
Nominal Output Voltage	220/230/240vdc	220/230/240vdc
Output Voltage Range	184-264.5 VAC or 195.5 -253 vac (Selectable)	184-264.5 VAC or 195.5 -253 vac (Selectable)
AC Input		
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC /180 VAC	120-140 VAC /180 VAC
Acceptable Voltage range	90-280VAC OR 170-280 VAC	90-280VAC OR 170-280 VAC
Maximum AC Input Current	30A	40A
Battery Mode Output (AC)		
Nominal output Voltage	220/230/240 VAC	220/230/240 VAC
Efficiency (AC to DC)	93%	93%
Battery & Charger		
Nominal DC Voltage	48VDC	48VDC
Maximum Charging Current	60A	120A
Maximum Solar Charging Current	60A	120A
Maximum AC Charging Current	60A	120A
General		
Physical		
Dimension DxWxH (mm)	140 x 295 x 468	140 x 295 x 468
Net Weight (Kgs)	11	14
Interface		
Communication Port	USB, RS -232, Dry Contact and Wi-Fi	USB, RS -232, Dry Contact and Wi-Fi
Parallel Function	Yes, up to 9 Units	Yes, up to 9 Units
Environment		
Operating Humidity	0 ~ 90% RH (No Condensing)	0 ~ 90% RH (No Condensing)
Operating Temperature	-10°C to 50°C	-10°C to 50°C



Lithium Battery Packs



LiMax 5



Compact Size and Lightweight

Built in Lithium-ion Phosphate (LFP) cell with less space and weight



Maximum Life Cycle

8000 cycles is for 60% of DoD with >50% capacity
4000/6000 cycles is for 80% of DoD with >80% capacity



Fast Charging

Battery module can be fully charged in shorter time



Modular Design for Easy Scalability

Battery module can be easily stacked and added for energy expansion

Battery Model	LiMax 5				
Cell Type	Lithium Ferro Phosphate (LFP)				
V/AH/KWH	51.2VDC /100AH /5.12KWH				
No. of Modules	1	2	3	4	5
Discharge Current	100A	200A	300A	300A	300A
Peak Discharge current (60sec) (A)	150A	350A	450A	450A	450A
Operating VDC	40-56	40-56	40-56	40-56	40-56
Charging Current (A)	60-100	60-100	100-300	100-300	100-300
Dimension [DxWxH mm]	405-495-430	405-495-695	405-495-960	405-495-1225	405-495-1490
Weight	51	102	153	204	255
Selection of LiMax for Infini					
Hybrid Inverter -Infini	3KW, 6KW	6KW, 10KW, 10KW	6KW, 10KW, 15KW	6KW, 10KW, 15KW	10KW, 15KW

Product Specifications are subject to change without further notice

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