Hykon®
Powering the Nation

Solar Hybrid Systems

- Solar Hybrid Inverters – Infini
- Lithium Battery Packs - LiMax
- Solar Hybrid Power Plants

UPS | Inverter | Solar Water Heater | Stainless Steel Water Tank | Tubular Battery | Solar Power Plant
Lithium-Ion Battery | E-Auto | E-Generator | BESS | Solar Hybrid Inverter

Hykon India Ltd. Corp. Office: Hykon House, Ikkanda Warrier Road, Thrissur - 680001. Kerala, India. Ph: 0487 2444183. E-mail: ho@hykonindia.com

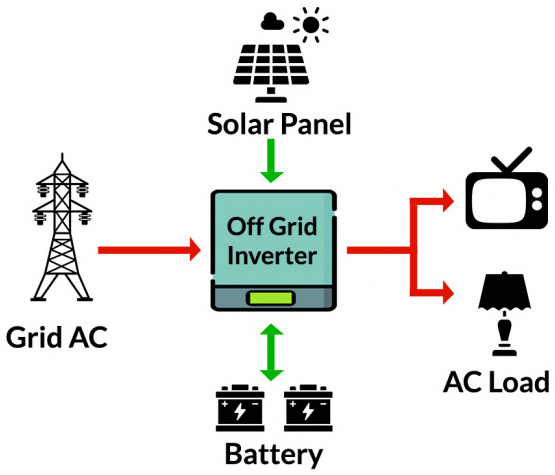
www.hykonindia.com

Hykon®
Powering the Nation

Types of Solar Inverters

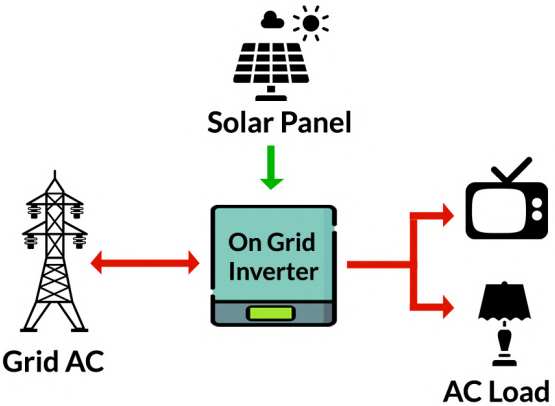
1 Off Grid

Solar Off-Grid Inverters function similarly to regular household inverters.
The key distinction lies in their ability to charge batteries directly from solar panels.



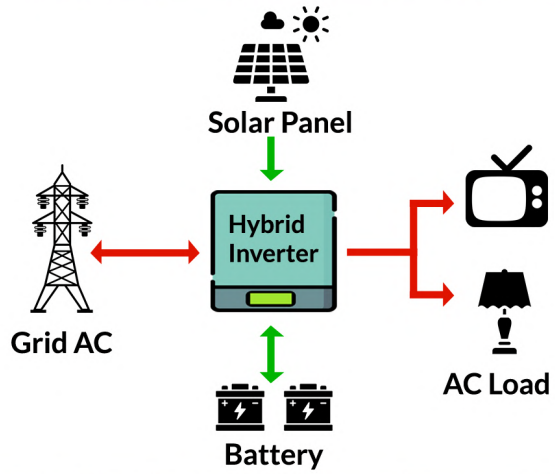
2 On Grid

On-Grid Inverter uses energy from solar panels to power your home, with support from the grid.
If it generates extra energy, it sends it back to the grid. However, since it doesn't have a battery backup, it won't work during grid outage



3 Hybrid

Hybrid inverters have both Off-Grid and On-Grid functions.
The load can operate exclusively from solar, battery or the grid.
It will work during Power failure also.



Hykon®
Powering the Nation

Infini - Hykon Solar Hybrid Inverters

Infini HSH 3 : 3KW

Infini HSH 5 : 5KW

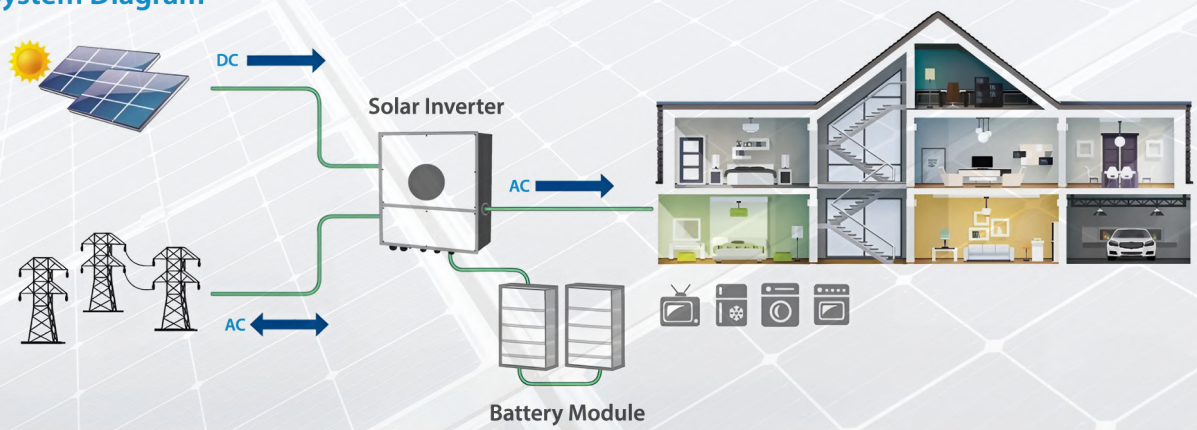
Infini HSH 6 : 6KW

Infini HSH 10 : 10KW

Infini HSH 15 : 15 KW

Infini HSH 30 : 30KW

System Diagram



Infini HSH 3 : 3KW Single Phase

- Maximum PV Input current 18A
- Built in Wi-Fi for mobile monitoring (APP is available)
- Programmable Supply Priority for PV, Battery or Grid
- User adjustable charging current and voltage
- Programmable multiple operation modes : Grid-tie, Off Grid and Grid-tie with Backup
- Detachable LCD panel
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel Operation upto 9 units

Specifications

Model	Infini HSH 3 : 3KW Single Phase
Phase	1-phase/ 1-phase out
Max PV Input power	4500 W
Rated Output Power	3000 W
Max Charging power	3000W
Grid Tie Operation	
PV Input (DC)	
Nominal DC Voltage / Max DC Voltage	360VDC /500 VDC
Start up Voltage / Initial Feeding Voltage	120VDC/150 VDC
MPPT Voltage Range	120VDC~430VDC
Number of MPP Trackers / Max. Input Current	1/18A
Grid Output (AC)	
Nominal Output Voltage	220/230/240 VDC
Output Voltage Range	184-264.5 VDC OR 19.5-253 VAC (Selectable)
Nominal Output Current	13A
Power Factor	>0.99
Efficiency	
Maximum Conversion Efficiency (DC/AC)	95%
Off-Grid Operation	
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC/180VAC
Acceptable Voltage Range	90-280 VAC OR 170-280VAC
Maximum AC Input Current	40A
Frequency Range	50 Hz/60Hz (auto sensing)
PV Input (DC)	
Maximum DC Voltage	500VDC
MPPT Voltage range	120 VDC ~ 430 VDC
Number of MPP Trackers/ Max Input current	1/18A
Battery Mode Output	
Nominal Output Range	220/230/240 VAC
Output waveform	Pure Sine wave
Efficiency (DC to AC)	93%
Hybrid Operation	
PV Input (DC)	
Nominal DC Voltage / Max. DC Voltage	360 VDC /500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC /150 VDC
MPPT Voltage range	120VDC ~ 430 VDC
Number of MPP Trackers/ Max Input current	1/18A
Grid Output (AC)	
Nominal Output Current	13 A
Nominal Output Voltage	220/230/240 VAC
Output Voltage Range	184-264.5 VAC OR 195.5 -253 VAC (Selectable)
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC /180 VAC
Acceptable Voltage range	90-280VAC OR 170-280 VAC
Maximum AC Input Current	30A
Battery & Charger	
Nominal DC Voltage	48 VDC
Maximum Charging Current	60A
Maximum Solar Charging Current	60A
Maximum AC Charging Current	60A
General	
Physical	
Dimension DxWxH (mm)	140x295x468
Net Weight (Kgs)	11
Interface	
Communication Port	USB,RS-232,Dry Contact and WiFi
Parallel Function	Yes - 9 units
Environment	
Operating Humidity	0 ~ 90% RH (No Condensing)
Operating Temperature	-10°C to 50°C

Product Specifications are subject to change without further notice

Infini HSH 5 : 5KW Single Phase

- Maximum PV Input current 27A
- Dual output for smart load management
- Built in Wi-Fi for mobile monitoring (APP is available)
- Programmable Supply Priority for PV, Battery or Grid
- User adjustable charging current and voltage
- Programmable multiple operation modes : Grid-tie, Off Grid and Grid-tie with Backup
- Detachable LCD panel
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel Operation upto 9 units

Specifications

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

Product Specifications are subject to change without further notice

Infini HSH 6 : 6KW Single Phase

- Maximum PV Input current 27A
- Dual output for smart load management
- Built in Wi-Fi for mobile monitoring (APP is available)
- Programmable Supply Priority for PV, Battery or Grid
- User adjustable charging current and voltage
- Programmable multiple operation modes : Grid-tie, Off Grid and Grid-tie with Backup
- Detachable LCD panel
- Supports USB on-the-go function
- Reserve BMS communication
- Parallel Operation upto 9 units

Specifications

Model	**Infini HSH 6 : 6KW Single phase**
Phase	1-phase/ 1-phase out
Max PV Input power	7000W
Rated Output Power	6000W
Max Charging power	6000W
Grid Tie Operation	
PV Input (DC)	
Nominal DC Voltge / Max DC Voltage	360VDC /500 VDC
Start up Voltage / Initial Feeding Voltage	120VDC/150 VDC
MPPT Voltage Range	120VDC~430VDC
Number of MPP Trackers / Max. Input Current	1/27A
Grid Output (AC)	
Nominal Output Voltage	220/230/240 VDC
Output Voltage Range	184-264.5 VDC OR 19.5-253 VAC (Selectable)
Nominal Output Current	26A
Power Factor	>0.99
Efficiency	
Maximum Conversion Efficiency (DC/AC)	95%
Off-Grid Operation	
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC/180VAC
Acceptable Voltage Range	90-280 VAC OR 170-280VAC
Frequency Range	50 Hz/60Hz (auto sensing)
Maximum AC Input Current	40A
PV Input (DC)	
Maximum DC Voltage	500VDC
MPPT Voltage range	120 VDC ~ 430 VDC
Number of MPP Trackers/ Max Input current	1/27A
Battery Mode Output(AC)	
Nominal Output Range	220/230/240 VAC
Output waveform	Pure Sine wave
Efficiency (DC to AC)	93%
Hybrid Operation	
PV Input (DC)	
Nominal DC Voltage / Max. DC Voltage	360 VDC /500 VDC
Start-up Voltage / Initial Feeding Voltage	120VDC /150 VDC
MPPT Voltage range	120VDC ~ 430 VDC
Number of MPP Trackers/ Max Input current	1/27A
Grid Output (AC)	
Nominal Output Current	220/230/240vdc
Nominal Output Voltage	184-264.5 VAC or 195.5 -253 vac (Selectable)
Output Voltage Range	26A
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC /180 VAC
Acceptable Voltage range	90-280VAC OR 170-280 VAC
Maximum AC Input Current	40A
Battery Mode Output (AC)	
Nominal output Voltage	220/230/240 VAC
Efficiency (AC to DC)	93%
Battery & Charger	
Nominal DC Voltage	48VDC
Maximum Charging Current	120A
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
General	
Physical	
Dimension DxWxH (mm)	140 x 295 x 468
Net Weight (Kgs)	14
Interface	
Communication Port	USB, RS -232,Dry Contact and WiFi
Parallel Function	Yes , 9 Units
Environment	
Operating Humidity	0 ~ 90% RH (No Condensing)
Operating Temperature	-10°C to 50°C

Product Specifications are subject to change without further notice

Infini HSH 10 : 10KW Three Phase

- Modular design for easy scalable
- Suitable for wide range of inverters with 48V system
- Easy connector & floor-standing design
- Compact size and lightweight
- Easy to install on the floor
- 95% DOD high performance
- Fast charging

Specifications

Model	Infini HSH 10 : 10KW Three Phase
Max PV Input power	14500 W
Rated Output Power	10000 W
Max Charging power	10000W
Grid Tie Operation	
PV Input (DC)	
Nominal DC Volatge / Max DC Voltage	720 VDC/1000 VDC
Start up Voltage / Initial Feeding Voltage	320VDC / 350 VDC
MPPT Voltage Range	350 VDC ~ 950 VDC
Number of MPP Trackers / Max. Input Current	2 / A:27 A, B:27A
Number of strings per MPP tracker	A:2, B:2
Grid Output (AC)	
Nominal Output Voltage	230 VAC (P-N)/ 400 VAC
Output Voltage Range	184 - 265 VAC per phase
Nominal Output Current	14.5 per phase3A
Power Factor	0.9 lag ~ 0.9 lead
Efficiency	
Maximum Conversion Efficiency (DC/AC)	>96%
European Efficiency @V nominal	>95%
Off-Grid Operation	
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Voltage Range	170 - 290 VAC
Maximum AC Input Current	40A
PV Input (DC)	
Maximum DC Power	14500 W
Maximum DC Voltage	1000 VDC
MPPT Voltage range	350VDC ~ 950 VDC
Number of MPP Trackers/ Max Input current	2 / A:27 A, B:27A
Number of strings per MPP tracker	A:2, B:2
Battery Mode Output	
Nominal Output Range	230 VAC (P-N)/ 400 VAC
Output waveform	Pure Sine wave
Efficiency (DC to AC)	91%
Hybrid Operation	
PV Input (DC)	
Nominal DC Voltage / Max. DC Voltage	14500 W
Start-up Voltage / Initial Feeding Voltage	320VDC / 350 VDC
MPPT Voltage range	350 VDC ~ 950 VDC
Number of MPP Trackers/ Max Input current	2 / A:27 A, B:27A
Grid Output (AC)	
Nominal Output Current	14.5 per phase
Nominal Output Voltage	230 VAC (P-N)/ 400 VAC
Output Voltage Range	184 - 265 VAC per phase
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Voltage range	170 - 290 VAC
Maximum AC Input Current	40A
Battery Mode Output (AC)	
Nominal Output Voltage	230 VAC (P-N)/ 400 VAC
Efficiency (DC to AC)	91%
Battery & Charger	
Battery voltage range	40 ~ 62 VDC
Maximum Charging Current	200 A
General	
Physical	
Dimension DxWxH (mm)	255 x 660 x 750
Net Weight (Kgs)	70
Interface	
Communication Port	R-232, Rs485, USB, CAN and WiFi
Intelligent Slot	Optional for SNMP and Modbus cards
Environment	
Operating Humidity	0 ~ 100% RH (No condensing)
Operating Temperature	-25°C to 60°C > 45°C power derating
Altitude	0 ~ 1000 m

Product Specifications are subject to change without further notice

Infini HSH 15 : 15KW Three Phase

- IP65 waterproof and dustproof makes the inverter available for various working conditions.
- Dual output for smart load control
- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- Built-in communication port for BMS (RS485), Wi-Fi
- User-adjustable charging current and voltage
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Parallel operation up to 9 units

Specifications

Model	Infini HSH15 : 15KW Three phase
Max PV Input power	22500
Rated Output Power	15000
Max Charging power	15000
Grid Tie Operation	
PV Input (DC)	
Nominal DC Voltage / Max DC Voltage	720 VDC / 1000 VDC
Start up Voltage / Initial Feeding Voltage	320 VDC /350 VDC
MPPT Voltage Range	350 VDC ~ 950 VDC
Number of MPP Trackers / Max. Input Current	A2/A:26A, B:26A
Number of Strings Per MPP Tracker	A:2, B:2
Grid Output (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184-265 VAC per phase
Nominal Output Current	21.7A per phase
Power Factor Range	0.9 lag ~ 0.9 lead
Efficiency	
Maximum Conversion Efficiency (DC/AC)	>96%
European Efficiency @V nominal	>95%
Off-Grid Operation	
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120 -140 VAC /180 VAC
Acceptable Voltage Range	170 -290 VAC per phase
Maximum AC Input Current	40A
PV Input (DC)	
Maximum DC Power	22500 W
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 950VDC
No. of MPP Trackers / Max. Input Current	2/A:26A, B :26A
Number of Strings Per MPP Tracker	A:2, B:2
Battery Mode Output(AC)	
Nominal Output Range	230 VAC (P-N) / 400 VAC (P-P)
Output waveform	Pure Sine wave
Efficiency (DC to AC)	91%
Hybrid Operation	
PV Input (DC)	
Max DC Voltage	1000VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC/ 350 VDC
MPPT Voltage range	350 VDC ~ 950VDC
Number of MPP Trackers/ Max Input current	2/A:26A, B :26A
Number of Strings Per MPP Tracker	A:2, B:2
Grid Output (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184-265 VAC per phase
Nominal Output Current	21.7 A per phase
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC /180 VAC
Acceptable Voltage range	170-290VAC Per phase
Maximum AC Input Current	40A
Battery Mode Output (AC)	
Nominal output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (AC to DC)	91%
Battery & Charger	
Battery Voltage range	40 ~ 62 VDC
Maximum Charging Current	300 A
General	
Physical	
Dimension DxWxH (mm)	255 x 660 x750
Net Weight (Kgs)	78
Interface	
Communication Port	RS -232, RS-485, USB, CAN and WiFi
Intelligent Slot	Optional for SNMP and Modbus cards
Environment	
Operating Humidity	0 ~ 100 % RH (Non condensing)
Operating Temperature	-25oC to 60oC, >45oC Power derating
Altitude	0 ~1000m
Protection & Certifications	
Safety	IEC 62109,IEC 62116, IEC 61727, IEC 61683
Grid Connection Standard	NRS097-2-1:2017,VDE-AR-N4105

Product Specifications are subject to change without further notice

Hykon®
Powering the Nation

Infini HSH 30 : 30KW Three Phase

- IP 65 waterproof and dust proof
- Built in third generation SIC MOSFET improves efficiency
- Accept dual AC inputs, utility power and generator power
- Built-in Wi-Fi for mobile monitoring
- User adjustable charging current upto 50A
- Wide Battery input range
- Built-in communication port
- Parallel operation upto 4 units

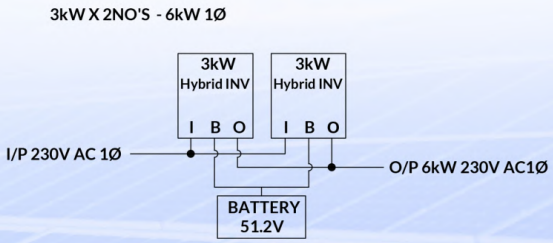
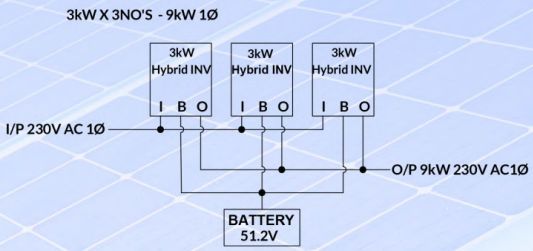
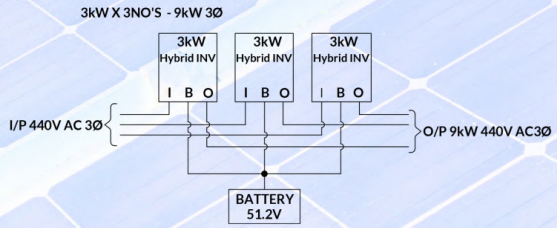
Specifications

Model	Infini HSH 30 : 30KW Three phase
Max PV Input power	40000 W
Rated Output Power	30000 W
Max Charging power	30000 W
Grid Tie Operation	
PV Input (DC)	
Nominal DC Voltage / Max DC Voltage	720 VDC /1000 VDC
Start up Voltage / Initial Feeding Voltage	320VDC/350VDC
MPPT Voltage Range	350 VDC ~ 950 VDC
Number of MPP Trackers / Max. Input Current	3/A:26A, B:26A, C:26A, D:26A
Number of Strings Per MPP Tracker	A:2, B:2,C:2.D:2
Grid Output (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184-265 VAC per phase
Nominal Output Current	43.5 A per phase
Power Factor Range	0.9 lag ~ 0.9 lead
Efficiency	
Maximum Conversion Efficiency (DC/AC)	96.50%
European Efficiency @V nominal	96%
Off-Grid Operation	
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC /180 VAC per phase
Acceptable Voltage Range	170-260 VAC per phase
Maximum AC Input Current	50A
PV Input (DC)	
Maximum DC Power	1000VDC
Maximum DC Voltage	320 VDC ~ 350 VDC
No. of MPP Trackers / Max. Input Current	3/A:26A, B:26A, C:26A
Battery Mode Output(AC)	
Nominal Output Range	230 VAC (P-N) / 400 VAC (P-P)
Output waveform	Pure Sine wave
Efficiency (DC to AC)	97%
Hybrid Operation	
PV Input (DC)	
Max DC Voltage	1000VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC /340 VDC
MPPT Voltage range	320 VDC ~ 350 VDC
Number of MPP Trackers/ Max Input current	3/A:26A, B:26A, C:26A
Grid Output (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184-265 VAC per phase
Nominal Output Current	43.5 A per phase
AC Input	
AC Start-up Voltage /Auto Restart Voltage	120-140 VAC /180 VAC per phase
Acceptable Voltage range	170-260 VAC per phase
Maximum AC Input Current	50A
Battery Mode Output (AC)	
Nominal output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (AC to DC)	97%
Battery & Charger	
Battery Voltage range	500 ~ 900 VDC
Maximum Charging Current	50 A
General	
Physical	
Dimension DxWxH (mm)	255 x 660 x 750
Net Weight (Kgs)	73
Interface	
Communication Port	RS-232, USB, Dry contact, RS-485, WiFi
Intelligent Slot	Optional SNMP and MODBUS
Environment	
Operating Humidity	0 ~ 100% RH
Operating Temperature	-25oC to 60oC, (>45oC Power derating)
Altitude	0 ~1000m
Protection & Certifications	
Safety	IEC 61000,EN 62690, IEC 62109, IEC 62477
Grid Connection Standard	NRS097-2-1:2017,VDE-AR-N4105, G99, IEC 61727, IEC 62116

Product Specifications are subject to change without further notice

Paralleling of Inifini - Hykon Solar Hybrid Inverters

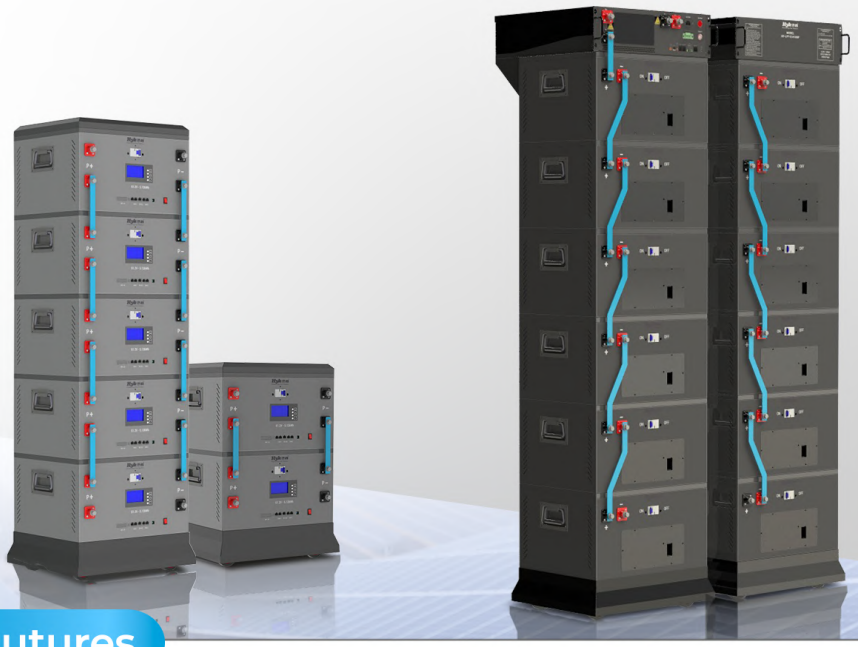
1. Inverters can have their capacities increased by paralleling with one another.
2. Up to 9 nos can be paralleled with 3KW and 6KW. It is possible to parallel up to 4 nos. with 10, 15, 30, and 50 KW.
3. A single battery pack can power a parallel inverter.
4. Single-phase inverters can be converted to three-phase inverters by paralleling them.
5. Every Inverter needs its own Parallel card in order to parallel

Paralleling of Infini	Capacity	Connection Diagram
3KW + 3KW	6KW Single Phase	
3KW + 3KW + 3KW	9KW - Single Phase	
3KW on each Phase	9KW - Three Phase	

Hykon®
Powering the Nation

LiMax - Lithium Battery Pack

1. **LiMax 5** - Low Voltage LFP Battery Pack: 5.12 KWH
2. **LiMax 61** - High Voltage LFP Battery Pack: 61.5 KWH



Feautures

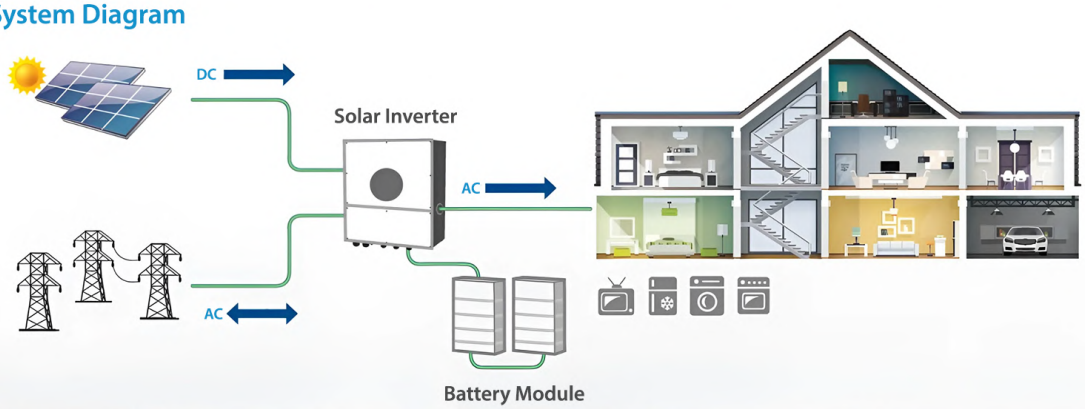
Compact size and light weight
Built-in Lithium Iron Phosphate (LFP) cell with less space and weight

Fast charging
Battery module can be fully charged in shorter time

Maximum Lifecycle
8000 cycles is for 60% of DOD with >50% capacity
6000 cycles is for 80% of DOD with >80% capacity
4000 cycles is for 90% of DOD with >80% capacity

Modular design for easy scalable
Battery module can be easily stacked and added for energy expansion

System Diagram



Hykon®
Powering the Nation

Technical Selection Guide

Battery Model	LiMax 5					LiMax 61
Cell Type	Lithium Ferro Phosphate (LFP)					
V/AH/KWH	51.2VDC /100AH /5.12KWH					615VDC/ 100AH/61.5KWH
No. of Modules	1	2	3	4	5	12
Discharge Current	100A	200A	300A	300A	300A	100A
Peak Discharge current (60sec) (A)	150A	350A	450A	450A	450A	150A
Operating VDC	40-56	40-56	40-56	40-56	40-56	480-670
Charging Current(A)	60-100	60-100	100-300	100-300	100-300	60-100
Dimension [D x W x H mm]	405-495-430	405-495-695	405-495-960	405-495-1225	405-495-1490	540-482-1855
Weight	51	102	153	204	255	650
Selection of LiMax for Infini						
Hybrid Inverter LiMax	3KW, 6KW	6KW, 10KW, 10KW	6KW, 10KW,15KW	6KW, 10KW,15KW	10KW, 15KW	30KW, 50 KW

General Specifications

Operating Temperature	0°C – 50°C
Storage Temperature	<18 months: 20°C -25 °C
	<2 months : 20°C -45 °C
	<1 month : 40°C -50 °C
Recommended Storage	20°C ± 5 °C
IP Protection	IP 20
Communication	RS485/RJ45/CAN

Product Specifications are subject to change without further notice

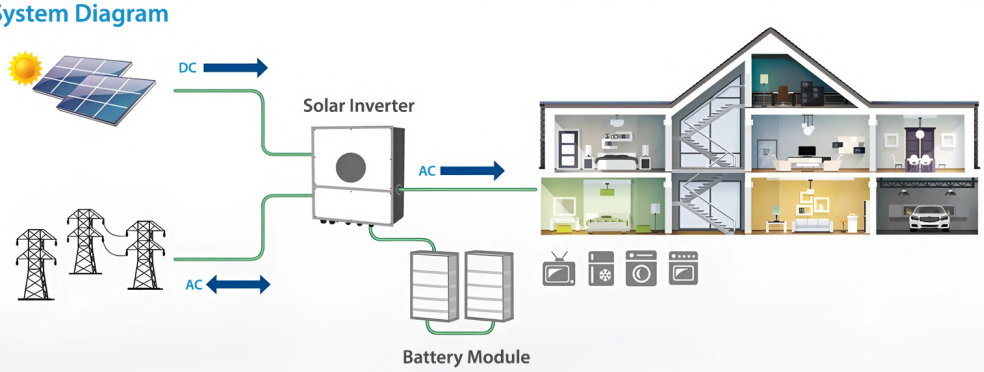
Hykon®
Powering the Nation

LiMax 61

- Lithium-Ion Phosphate (LFP) cell guarantees safety and reliability
- Parallel Operations up to 5 units of Energy expansion
- Suitable for wide range of solar Inverters with High Voltage
- Compact Size and Lightweight
- Built-in Lithium-Ion Phosphate cells with less space and weight
- Modular design for easy scalable
- Battery Module can be easily stacked and added for energy expansion
- Fast Charging
- Battery module can be fully charged in shorter time

Model Name		LiMax-61
Single Battery Module		HLH 05 (51.2V/100AH,5.12KWH)
No. of Modules		12
Parameters		
Nominal Voltage		614 VDC
Full Charge Voltage (FC)		672 VDC
Typical Capacity		100 AH
Typical Energy		61.5KWh
Max. Continuous Discharging Current		100A
Max. Peak Discharging Current		150A
Protection		BMS & Circuit Breaker
Charge Current		50A
Max. Charge Current		100A
Standard Charge Method		0.2 CC (Constant Current) charge to FC CV (Constant Voltage FC) change till charge current decline to <0.05C
Cycle Life		6000 cycles is for 80% of DOD with >80% capacity
Inner Resistance		≤ 20m Ohm
Operating temp	Charge	0°C ~55°C
	Discharge	0°C ~55°C
Compliance Safety		IEC 62619, UN38.3
Physical		
Single Battery Module	Dimension D x W x H (mm)	370-460-280
	Net weight (Kg)	51
Controller box	Dimension D x W x H (mm)	540-495-200
	Net weight (Kg)	6.5
Complete Set	Dimension D x W x H (mm)	220x630x1280 and 220x630x1070
	Net weight (Kg)	650

System Diagram



Hykon®
Powering the Nation

Why Hykon

Today for Tomorrow

At Hykon, we believe the future is built today. We're inspired by your experiences to innovate and develop solutions that meet your evolving needs continuously. Our focus isn't just on delivering exceptional power electronics and green energy products, but on creating a better tomorrow for you and your family.

With over three decades of experience serving multiple large-scale businesses across various industries, we have a proven track record of delivering reliable and efficient power solutions. Our team of experts works closely with clients to understand their unique requirements and provide customized solutions that exceed their expectations.

Our commitment to quality, innovation, and customer satisfaction has enabled us to build long-lasting relationships with our clients. By choosing Hykon, you're choosing a partner dedicated to building a brighter, more sustainable future.

Hykon®
Powering the Nation

Our Major Clients

Corporate Customers

Joyalukkas · Jos Alukkas · Malabar Gold & Diamonds · Kalyan Jewellers · Josco Jewellers · Sree Gokulam Chit & Finance Co. (P) Ltd. · Kisan Mattom Finance · Ashoka Buildcon Limited · WISH · TS · Arvind Motors · Orange County · Titan Eye+ · Max Value · Barbeque Nation · Tata · Tata Projects

Banking, Financial Services & Insurance

South Indian Bank · Canara Bank · Kerala Gramin Bank · Karnataka Bank Ltd. · New India Assurance · United India Insurance Co. Ltd. · CSB Bank · Federal Bank · Indian Bank · Muthoot Finance · Karnataka Gramin Bank · ESAF Small Finance Bank · Tamil Nadu Grama Bank · UCO Bank · Muthoot Fincorp

Educational Institutions

KSIT · NIE · KLE Academy of Higher Education and Research · Institute of Technology · A.J. Institute of Medical Sciences

Hospitals

St. John's National Academy of Health Sciences · Bangalore Baptist Hospital · vasan eye care · Chinmaya Mission Hospital · KR Hospital · Sagar Hospitals · Tamara Hospital & IVF Centre

Government

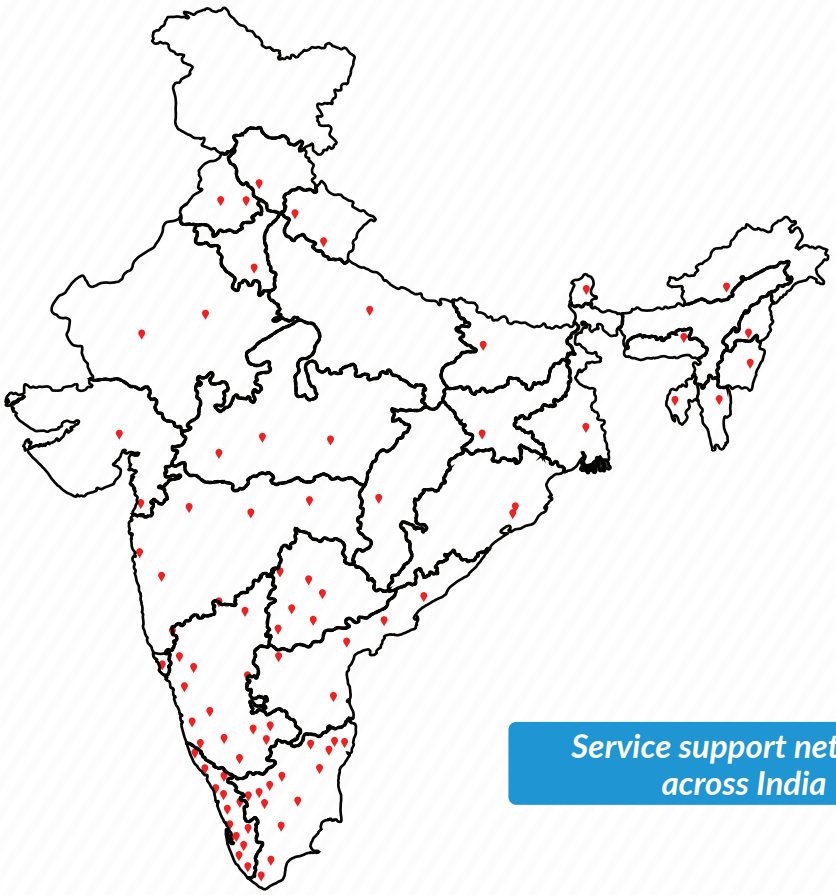
ICAR · Airports Authority of India · KSFE · DRDO · Doordarshan · Central Silk Board · MESCOM · Bharatiya Reserve Bank Note Mudran (P) Ltd. · ELCOT · India Post · Karnataka Housing Board · Southern Railway

Public Sector

HAL · BEML · Bharat Electronics · NMDC Limited · KELTRON · BSNL · BHEL · Bharat Petroleum

Hykon®

Powering the Nation



Service support network across India

Excellent Customer Service

Prompt After-Sales Support

Round the Clock Technical Assistance

Bangalore Regional office :

Hykon India Limited. No 48, 10th Cross, Wilson Garden, Hosur Main Road, Bengaluru - 560027, Ph: 9846 404004

Head office :

Hykon India Ltd. Ikkanda Warrier Road ,Thrissur - 680 001, Kerala, India, Ph: 0487 2444183, E-mail: ho@hykonindia.com

Call us 9020 121 121

UPS | Inverter | Solar Water Heater | Stainless Steel Water Tank | Tubular Battery | Solar Power Plant

Lithium-Ion Battery | E-Auto | E-Generator | BESS | Solar Hybrid Inverters