

Hybrid Solar & Energy Storage Inverter

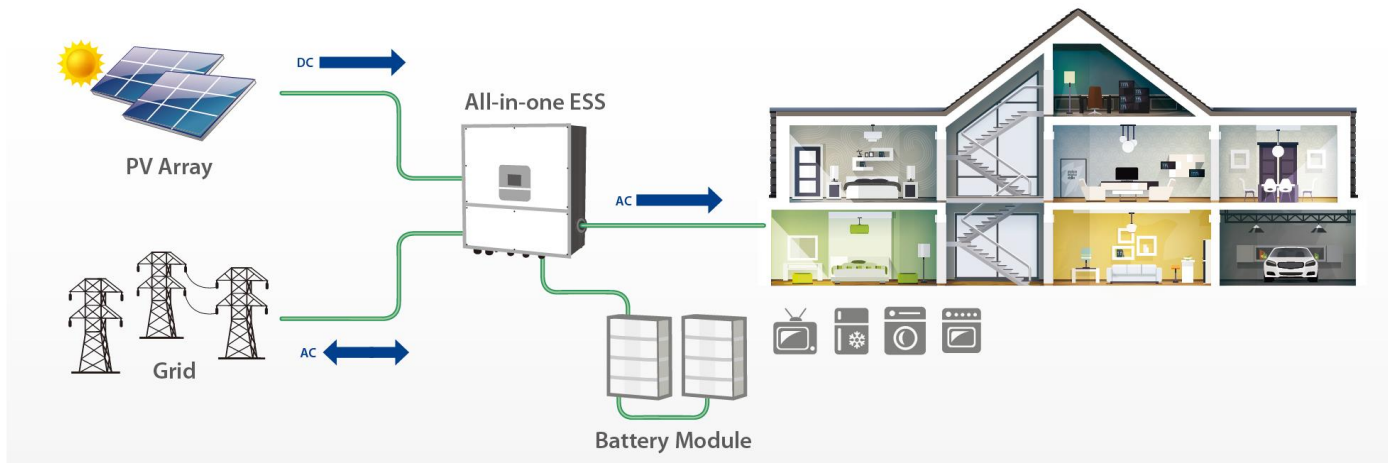
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ESS, 5kw - 50kw hybrid solar inverter & 5kwh - 50kwh lithium battery module

Grid-tie + off-grid + lithium ion storage module, integrated to a ESS

System Diagram



Benefits



All-in-one solution
Compose of inverter and battery in one unit.



Compact size and Lightweight
Lithium-ion battery with less space and weight.



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

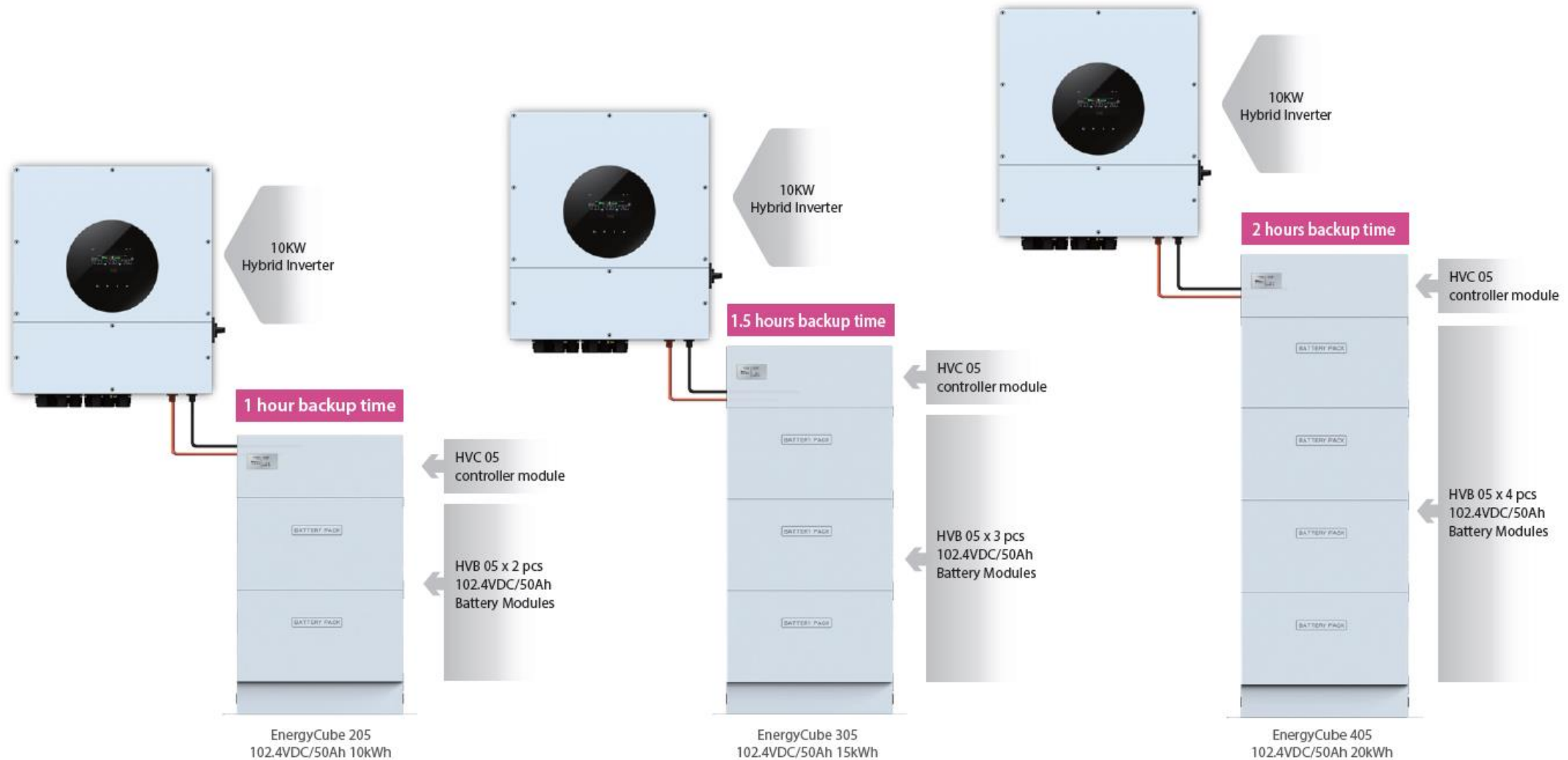
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Solar Energy Storage System, WP 10kw IP65 inverter + scalable 5kwh battery module

10KW hybrid inverter with
10kWh battery modules

10KW hybrid inverter with
15kWh battery modules

10KW hybrid inverter with
20kWh battery modules

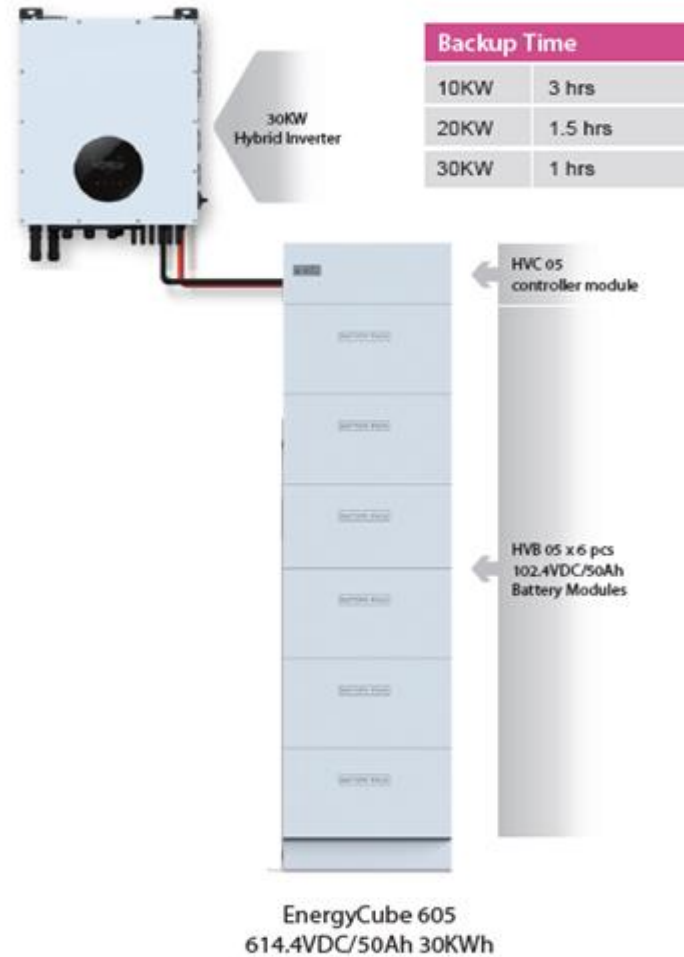


Energy Storage System, WP 30kw & 50kw IP65 inverter + scalable 30kwh & 50kwh battery module

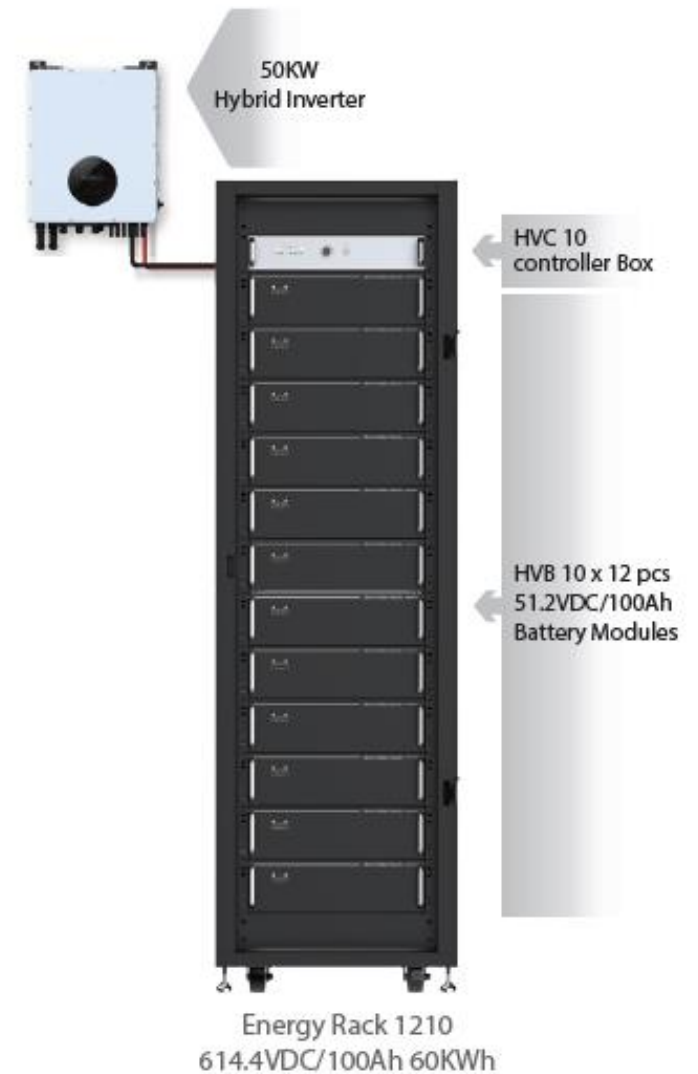
30KW, 50KW IP65 Hybrid Solar Inverter with 30kWh or 60kWh Lithium-ion battery modules



30KW hybrid inverter with EnergyCube 605



50KW hybrid inverter with Energy Rack 1210



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Energy Storage System

LIO II 48V 5KWH Lithium-ion battery module

LIO II-4810 is Lithium-ion battery module specially designed for energy storage system with 48V system

- Easy to install on the floor.
- Suitable for wide range of inverters with 48V system



Solar Energy Storage System

InfiniSolar WP 30KW 3-Phase



MODEL	InfiniSolar WP 30KW
MAXIMUM PV INPUT POWER	40000 W
RATED OUTPUT POWER	30000 W
MAXIMUM CHARGING POWER	30000 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 27A, B: 27A, C: 27A
Number of Strings Per MPP Tracker	A: 2, B: 2, C: 2
GRID/UTILITY 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	0.9 lag to 0.9 lead
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency@ Vnominal	96%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	50 A
PV INPUT (DC)	
Maximum DC Voltage	1000 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	3 / A: 27A, B: 27A, C: 27A

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Solar Energy Storage System

InfiniSolar WP 50KW 3-Phase



INVERTER MODEL	InfiniSolar WP 50KW
Maximum PV Input Power	67,000 W
Rated Output Power	50,000 W
Maximum Charging Power	50,000 W
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 1000 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	5 / A: 27A, B: 27A, C: 27A, D: 27A ,E: 27A
Number of Stings Per MPP Tracker	2
GRID OUTPUT	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC per phase
Max. Output Current	73 A per phase
Maximum Conversion Efficiency (DC/AC)	96.5%
European Efficiency @ Vnominal	96%
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 -280 VAC per phase
Maximum AC Input Current	83 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Maximum Conversion Efficiency (DC/AC)	96%
BATTERY & CHARGER	
Nominal DC Voltage	600 ~ 1000 VDC
Maximum Charging Current	83 A

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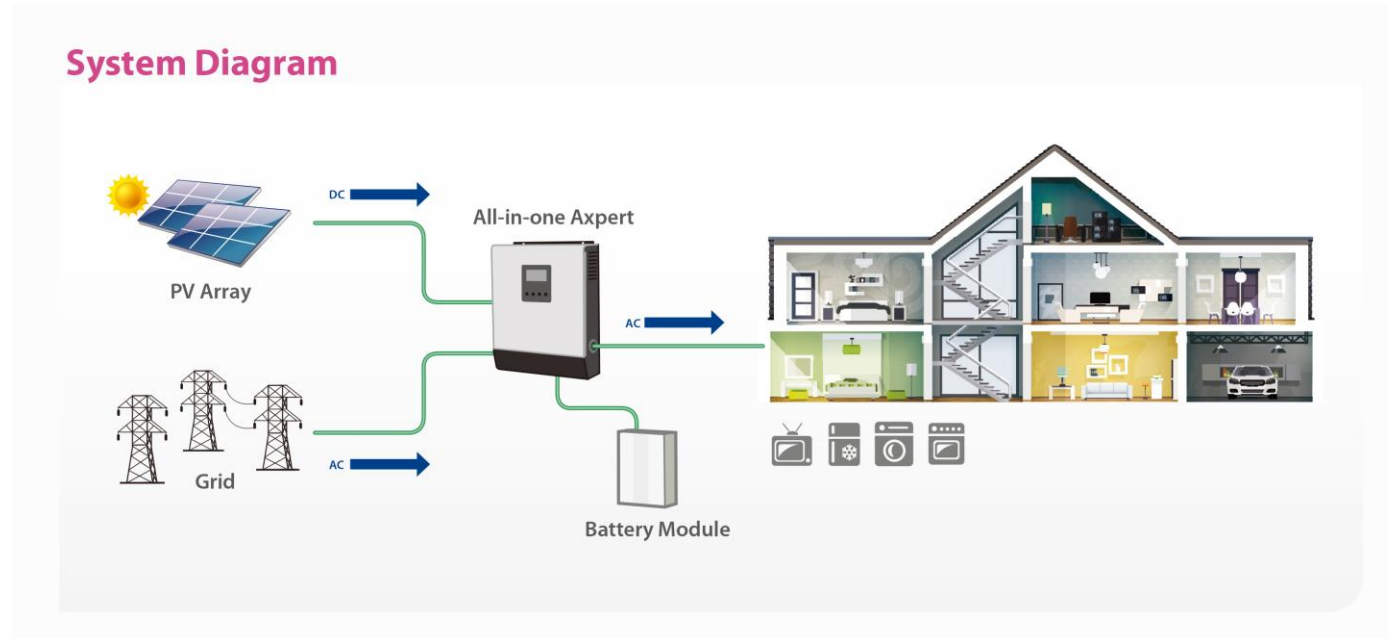
ESS510 & 810, 5.5kw & 8Kw hybrid inverter with 5Kwh lithium-ion scalable battery bank



- Pure sine wave output
- Self-consumption and Feed-back to the Grid
- Programmable supply priority for PV, battery or Grid
- User-adjustable battery charging current
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in timer for various mode of on/off operation
- Multiple communication for USB, RS232, Modbus, SNMP, GPRS and Wi-Fi
- Monitoring software for real-time status display and control
- Enhance AC/Solar charger to 60A
- Scalable Li-Ion battery expansion
- Li-Ion battery life cycle: 8000 cycles at 25 ° C
- High surge discharging current up to 3C
- IP 20

Solar Storage Inverter - Axpert

Supply load and storage energy into battery from grid or solar, and transfer storage power to load when needed



Benefits



All-in-one solution
Compose of inverter and battery in one unit.



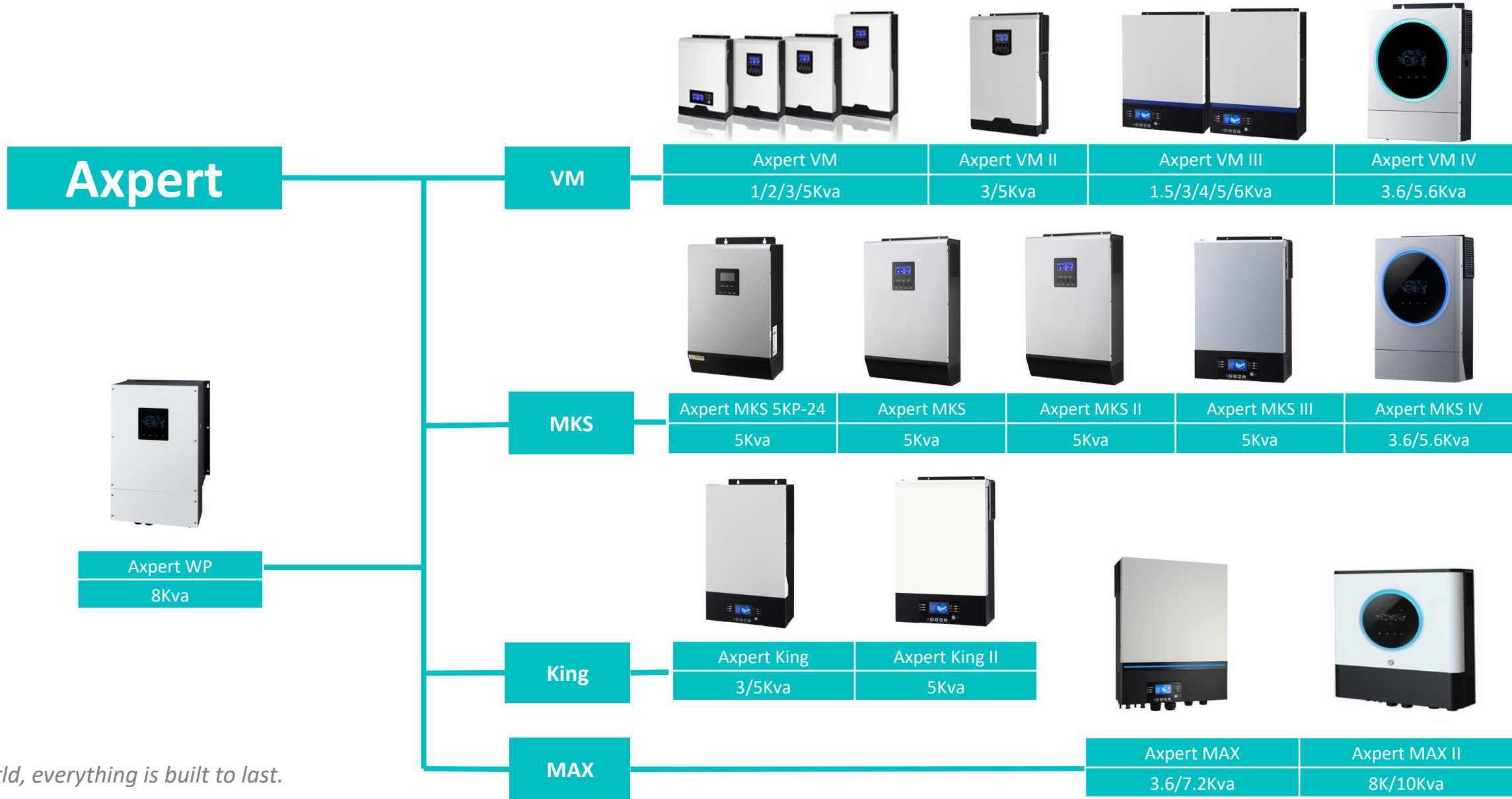
Compact size and Lightweight
Lithium-ion battery with less space and weight.



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

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Axpert off-grid inverter family



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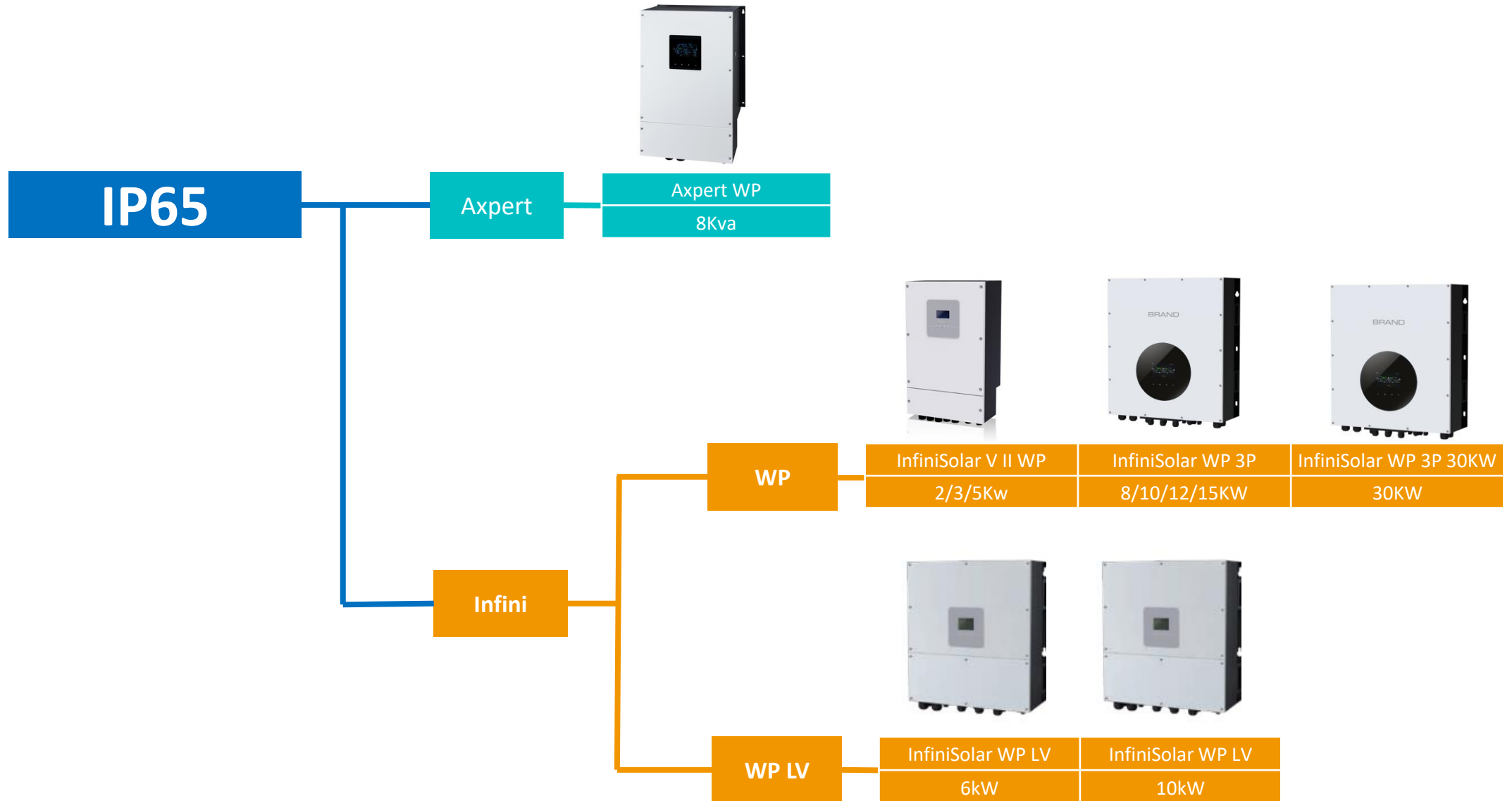
InfiniSolar hybrid inverter family

InfiniSolar



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IP65 Solar Inverter family



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Axpert MKS



Model	Axpert MKS 5KP-24	Axpert MKS	Axpert MKS II	Axpert MKS III	Axpert MKS IV
Rating	5Kva	5Kva	5Kva	5Kva	3.6/5.6Kva
MPPT Type	MPPT	MPPT	MPPT	MPPT	MPPT
Maximum PV Rating	2000W	4000W	4500W	5000W	5000/6000W
Maximum PV VOC	145V	145V	450V	450V	450V
Parallel Feature	9 units	9 units	9 units	9 units	9 units
Remote Panel	N/A	N/A	N/A	Yes	N/A
Battery Independence	N/A	N/A	Yes	Yes	Yes
Battery Voltage	24V	48V	48V	48V	48V
Maximum Solar Charging Current	80A	80A	100A	100A	100A/120A
Maximum AC Charging Current	60A	60A	100A	100A	100A/120A
Maximum Total Charging Current	140A	140A	100A	100A	100A/120A
Inbuilt BMS Port	N/A	Optional BMS Box	Optional BMS Box	Yes	Yes
Inbuilt Wifi/BlueTooth	Optiona Wifi Box	Optiona Wifi Box	Optiona Wifi Box	BlueTooth	Wifi with APP
LCD Disply	2.5" Mono	2.5" Mono	2.5" Mono	2.5" Mono	4.3" Color
Certificate	CE, IEC Certificate	CE, IEC Certificate	CE, IEC Certificate	CE, IEC Certificate	CE, IEC Certificate

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Axpert V



Model	Axpert VM	Axpert VM II	Axpert VM III	Axpert VM IV
Rating	1/2/3/5Kva	3/5Kva	1.5/3/4/5/6Kva	3.6/5.6Kva
MPPT Type	MPPT	MPPT	MPPT	MPPT
Maximum PV Rating	500/1000/1500/3000W	4000/5000W	2000/4000/5000/5000/6000W	4000/6000W
Maximum PV VOC	145V	500V	500V	500V
Parallel Feature	N/A	N/A	N/A	N/A
Remote Panel	N/A	N/A	Yes	N/A
Battery Independence	N/A	Yes	Yes	Yes
Battery Voltage	12/24/24/48V	24/48V	24/24/24/48/24V	24/48V
Maximum Solar Charging Current	40/40/60/60A	100A	60/100/100/100/120A	120A
Maximum AC Charging Current	20/25/60/60A	100A	40/100/100/100/120A	100A
Maximum Total Charging Current	60/60/120/120A	100A	60/100/100/100/120A	120A
Inbuilt BMS Port	N/A	N/A	Yes	Yes
Inbuilt Wifi/BlueTooth	Optiona Wifi Box	Optiona Wifi Box	Bluetooth	Wifi with APP
LCD Disply	2.5" Mono	2.5" Mono	2.5" Mono	4.3" Color
Certificate	CE, IEC Certificate	CE, IEC Certificate	CE, IEC Certificate	CE, IEC Certificate

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Axpert King



Model	Axpert King	Axpert King II
Rating	3/5Kva	5Kva
MPPT Type	MPPT	MPPT
Maximum PV Rating	1500/4000W	6000W
Maximum PV VOC	145V	500V
Parallel Feature	9 units	9 units
Remote Panel	Yes	Yes
Battery Independence	N/A	Yes
Battery Voltage	24/48V	48V
Maximum Solar Charging Current	60/80A	100A
Maximum AC Charging Current	60/60A	100A
Maximum Total Charging Current	120/140A	100A
Inbuilt BMS Port	Yes	Yes
Inbuilt Wifi/BlueTooth	Bluetooth	Wifi with APP
LCD Disply	2.5" Mono	2.5" Mono
Key Features	0ms Transfer Time	0ms Transfer Time
Certificate	CE, IEC Certificate	CE, IEC Certificate

Axpert MAX



Model	Axpert MAX	Axpert MAX II
Rating	3.6/7.2Kva	8K/10kva
MPPT Type	MPPT	MPPT x2
Maximum PV Rating	4000/8000W	8000/10000W
Maximum PV VOC	500V	500V
Parallel Feature	6 units for 7.2Kva	6 units
Remote Panel	Yes	N/A
Battery Independence	Yes	Yes
Battery Voltage	24/48V	48V
Maximum Solar Charging Current	80A	150A
Maximum AC Charging Current	80A	120A
Maximum Total Charging Current	80A	150A
Inbuilt BMS Port	Yes	Yes
Inbuilt Wifi/BlueTooth	Wifi with APP	Wifi with APP
LCD Disply	2.5" Mono	5" Color
Key Features	RGB Light / DC Load	RGB Light / DC Load
Certificate	CE, IEC Certificate	CE, IEC Certificate

Axpert IP65



Model	Axpert WP
Rating	8Kva
MPPT Type	MPPT x2
Maximum PV Rating	8000W
Maximum PV VOC	500V
Parallel Feature	6 units
Remote Panel	N/A
Battery Independence	Yes
Battery Voltage	48V
Maximum Solar Charging Current	150A
Maximum AC Charging Current	120A
Maximum Total Charging Current	150A
Inbuilt BMS Port	Yes
Inbuilt Wifi/BlueTooth	Wifi with APP
Key Features	IP65
Certificate	CE, IEC Certificate

InfiniSolar V



Model	InfiniSolar V	InfiniSolar V II	InfiniSolar V III	InfiniSolar V IV
Rating	1/2/3/4/5Kw	1.5/2/3/5/6Kw	2/3/5/6/6.6KWKw	3.6/5.6Kw
MPPT Type	MPPT	MPPT	MPPT	MPPT
Maximum PV Rating	1000/2000/3000/4000/5000W	2000/3000/4000/5000/6000W	3000/4500/6000/6500/7000W	5000/6000W
Maximum PV VOC	145V	400-450V	450-500V	450V
Parallel Feature	9 units for 3/4/5Kw	9 units for 2/3/5/6Kw	9 units	9 units
Remote Panel	N/A	N/A	Yes	N/A
Battery Independence	N/A	Yes	Yes	Yes
Battery Voltage	12/24/48/48/48V	48V	48V	48V
Maximum Solar Charging Current	80/80/80/80/120A	30A/60A/60A/100A/100A	60A/60A/100A/120/130A	100A/120A
Maximum AC Charging Current	60A	40A/60A/60A/100A/100A	60A/60A/100A/120/130A	100A/120A
Maximum Total Charging Current	140/140/140/140/180A	40A/60A/60A/100A/100A	60A/60A/100A/120/130A	100A/120A
Inbuilt BMS Port	N/A	N/A	Yes	Yes
Inbuilt Wifi/BlueTooth	N/A	N/A	Wifi with APP	Wifi with APP
LCD Disply	2.5" Mono	2.5" Mono	2.5" Mono	4.3" Color
Energy Meter	Not Support	Not Support	Not Support	Not Support
Certificate	IEC Certificate	IEC Certificate	IEC Certificate	IEC Certificate

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InfiniSolar Plus



Model	InfiniSolar Plus	InfiniSolar Plus 3P	InfiniSolar Super	InfiniSolar E	InfiniSolar TX	InfiniSolar TX-PA
Rating	3/5KW	10/15KW	4KW	5.5KW	20KW	30KW
MPPT Type	MPPT	MPPT	MPPT	MPPT	MPPT	MPPT
Maximum PV Rating	4500/10000W	14850/22500W	5000W	6500W	30000W	45000W
Maximum PV VOC	500/900V	900V	580V	500V	950V	950V
Parallel Feature	6 units for 5KW	6 units	6 units	N/A	N/A	4 units
Remote Panel	N/A	N/A	N/A	N/A	N/A	N/A
Battery Independence	N/A	N/A	N/A	N/A	Yes	Yes
Battery Voltage	48V	48V	48V	48V	384V	384V
Maximum Solar Charging Current	60A/100A	200A/300A	80A	60A	50A	80A
Maximum AC Charging Current	60A/100A	200A/300A	80A	60A	50A	80A
Maximum Total Charging Current	60A/100A	200A/300A	80A	60A	50A	80A
Inbuilt BMS Port	Optional BMS Card	Optional BMS Card	Optional BMS Card	Optional BMS Card	N/A	N/A
Inbuilt Wifi/BlueTooth	Optional Wifi Box	Optional Wifi Box	Optional Wifi Box	Optional Wifi Box	Optional Wifi Card	Optional Wifi Card
LCD Disply	3.5" Mono	3.5" Mono	3.5" Mono	3.5" Mono	3.5" Mono	3.5" Mono
Energy Meter	Optional	Optional	Optional	Optional	Not Support	Not Support
Key Features					Transformer Type	Transformer Type
Certificate	VDE Certificate	VDE Certificate	VDE Certificate	VDE Certificate	IEC Certificate	IEC Certificate

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InfiniSolar WP solar inverter IP65 5kw to 50kw



Model	InfiniSolar V II WP	InfiniSolar WP 3P	InfiniSolar WP 3P 30KW/50KW
Rating	2/3/5Kw	8/10/12/15KW	30KW/50KW
MPPT Type	MPPT	MPPT	MPPT
Maximum PV Rating	3000/4500/6000W	10500/14500/16000/16000W	40W/60KW
Maximum PV VOC	400-500V	1000V	1000V
Parallel Feature	9 units	6 units	6 units (Independent Battery)
Remote Panel	N/A	N/A	N/A
Battery Independence	Yes	N/A	N/A
Battery Voltage	48V	48V	576-950V
Maximum Solar Charging Current	40A/60A/100A	190A/220A/250A/300A	50A/100A
Maximum AC Charging Current	40A/60A/100A	190A/220A/250A/300A	50A/100A
Maximum Total Charging Current	40A/60A/100A	190A/220A/250A/300A	50A/100A
Inbuilt BMS Port	N/A	Yes	Yes
Inbuilt Wifi/BlueTooth	Optiona Wifi Box	Wifi with APP	Wifi with APP
LCD Disply	2.5" Mono	5" Mono	5" Mono
Energy Meter	Not Support	Optional	Optional
Key Features	IP65	IP65	IP65
Certificate	IEC Certificate	VDE Certificate	VDE Certificate

InfiniSolar IP65 , American version



Model	InfiniSolar WP LV	InfiniSolar WP LV
Rating	6kW	10kW
MPPT Type	MPPT	MPPT
Maximum PV Rating	7500W	14500W
Maximum PV VOC	600V	600V
Parallel Feature	6 units	6 units
Remote Panel	N/A	N/A
Battery Independence	Yes	Yes
Battery Voltage	48V	80~576V
Maximum Solar Charging Current	120A	50A
Maximum AC Charging Current	120A	50A
Maximum Total Charging Current	120A	50A
Inbuilt BMS Port	Yes	Yes
Inbuilt Wifi/BlueTooth	Wifi with APP	Wifi with APP
LCD Disply	5" Mono	5" Mono
Energy Meter	Optional	Optional
Key Features	IP65	IP65
Certificate	UL Certificate	UL Certificate

Wide range IP 65 inverter WP family

Models	V II 3/5/6KW	6KW	8/10/12/15KW	30KW/50KW	20KW	LV 6KW	LV 10KW
Phase	Single phase	Single phase	Three phase	Three phase	Three phase (208V)	Split phase	Split phase
Output power	3/5KW	6KW	8/10/12/15KW	30KW/50KW	20KW	6KW	10KW
Maximum Solar Power	4.5/6KW	7.5KW	10/14.5/16/16KW	40KW/60KW	22.5KW	7.5KW	14.5KW
Maximum solar voltage	500V	600V	1000V	1000V	600V	600V	600V
Numbers of MPP trackers	1	2	2	3	3	2	2
Battery voltage	40~64V	40~64V	40~64V	576~950V	160~500V	40~64V	80~500V
Charging current	60/100A	120A	190/220/250/300A	50A/100A	80A	120A	50A
Certification	IEC 62109 IEC 61683 IEC 62116&61727	VDE 4105, VDE 0126, NRS, EN 50549, TOR IEC 62108, IEC 61683, IEC 62116&61727				IEEE 1547 UL 1741	