

INFINISOLAR V HYBRID-ON GRID INVERTER WITH ENERGY STORAGE



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- 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
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units only for 3K/4K/5K models

INFINISOLAR V 1K/2K/3K/4K/5K ON-GRID INVERTER WITH ENERGY STORAGE

MODEL	InfiniSolar V-1K-12	InfiniSolar V-2K-24	InfiniSolar V-3K-48	InfiniSolar V-4K-48	InfiniSolar V-5K-48
Max. PV Array Power	1000W	2000W	4000W	4000W	6000W
Rated Output Power	1000W	2000W	3000W	4000W	5000W
Maximum PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC	145 VDC	145 VDC
MPPT Range @ Operating Voltage	15 VDC ~ 115 VDC	30 VDC ~ 115 VDC	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC
Number of MPP Tracker	1	1	1	1	2
GRID-TIE OPERATION					
GRID OUTPUT (AC)					
Nominal Output Voltage	220/230/240 VAC				
Output Voltage Range	184 - 264.5 VAC or 195.5 - 253 VAC (Selectable)				
Nominal Output Current	4.3A	8.7A	13A	17.4A	21.7A
Power Factor	>0.99				
EFFICIENCY					
Maximum Conversion Efficiency (DC/AC)	90%				
OFF-GRID, HYBRID OPERATION					
GRID INPUT					
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
Maximum AC Input Current	30 A		40 A		
BATTERY MODE OUTPUT (AC)					
Nominal Output Voltage	220/230/240 VAC				
Output Waveform	Pure sine wave				
Efficiency (DC to AC)	93%				
BATTERY & CHARGER					
Nominal DC Voltage	12 VDC	24 VDC	48 VDC	48 VDC	48 VDC
Maximum Solar Charge Current	80 A	80 A	80 A	80 A	120 A
Maximum AC Charge Current	60 A				
Maximum Charge Current	140 A	140 A	140 A	140 A	180 A
GENERAL					
PHYSICAL					
Dimension, D X W X H (mm)	100 x 300 x 440	100 x 300 x 440	120 x 295 x 468	120 x 295 x 468	194 x 295 x 483
Net Weight (kgs)	8	8	11	11	16
INTERFACE					
Parallel Function	N/A	N/A	Yes	Yes	Yes
External Safety Box (Optional)	Yes				
Communication	USB or RS-232/Dry Contact				
ENVIRONMENT					
Humidity	0 ~ 90% RH (No condensing)				
Operating Temperature	0 to 50°C				

*These figures may vary depending on different AC voltage and country requirements.

** Power derating 1% every 100 m when altitude is over 1000m

Product specifications are subject to change without further notice

AXPERT V SERIES : OFF GRID INVERTER



- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Selectable input voltage range for home appliances and personal computers
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery

Axpert V Specification

MODEL	Axpert VP3000-24	Axpert VM3000-24	Axpert VM-3000-24 Plus	Axpert VP5000-48	Axpert VM5000-48
Rated Power	3000VA/2400W			5000VA/4000W	
INPUT					
Voltage	230 VAC				
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
OUTPUT					
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%				
Surge Power	6000VA			10000VA	
Efficiency (Peak)	90% ~ 93%				
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)				
Waveform	Pure sine wave				
BATTERY					
Battery Voltage	24 VDC			48 VDC	
Floating Charge Voltage	27 VDC			54 VDC	
Overcharge Protection	32 VDC			63 VDC	
SOLAR CHARGER & AC CHARGER					
Solar Charger Type	PWM		MPPT		
Maximum PV Array Open Circuit Voltage	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC
Maximum Solar Charge Current	50A	40A	60A	50A	60A
Maximum AC Charge Current	25A			60A	
Maximum Charge Current	70A	60A	120A	110A	120A
PHYSICAL					
Dimension, D X W X H (mm)	100 x 334 x 285			100 x 440 x 300	
Net Weight (kgs)	6.4Kg	6.6Kg	11Kg	11Kg	13Kg
Communication Interface	USB				
OPERATING ENVIRONMENT					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	-10°C to 50°C				
Storage Temperature	-15°C to 60°C				

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INFINISOLAR PLUS 10KW 3PHASE



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- 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, RS-232, Modbus and SNMP

INIFINISOLAR 10KW HYBRID INVERTER

MODEL	InfiSolar 3P 10KW
Phase	3-phase in/3-phase out
Maximum PV Input Power	14850 W
Rated Output Power	10000 W
Maximum Charging Power	9600 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
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	14.5A per phase
Power Factor	> 0.99
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 per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	900 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure sine wave
Efficiency (DC to AC)	91%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 18.6A



INIFINISOLAR 10KW HYBRID INVERTER

MODEL	InfiniSolar 3P 10KW
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	14.5A per phase
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	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 60A, 10A - 200A (Adjustable)
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	167.2 x 500 x 622
Net Weight (kgs)	45
INTERACE	
Communication Port	RS-232/USB and CAN Interface
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m**

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INFINISOLAR PLUS 3KW



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- 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, RS-232, Modbus and SNMP

INFINISOLAR Plus 3KW HYBRID INVERTER

MODEL	InfiniSolar Plus 3KW
Phase	
Maximum PV Input Power	4500 W
Rated Output Power	3000 W
Maximum Charging Power	1200 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A
GRID OUTPUT (AC)	
Nominal Output Voltage	208/220/230/240 VAC
Output Voltage Range	184 - 265 VAC*
Nominal Output Current	13A
Power Factor	> 0.99
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 Input Voltage Range	170 -280 VAC
Maximum AC Input Current	30A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A



INIFINISOLAR Plus 3KW HYBRID INVERTER

MODEL	InfiniSolar Plus 3KW
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Waveform	Pure sine wave
Efficiency (DC to AC)	93%
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	250 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A
GRID OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184 - 265 VAC*
Nominal Output Current	13A
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 -280 VAC
Maximum AC Input Current	
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 25 A, 5A - 25A (Adjustable)
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	107x 438 x 480
Net Weight (kgs)	15.5
INTERACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Operating Temperature	0 to 40°C
Altitude	0 ~ 1000 m**

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INIFINISOLAR E 5.5KW



- Pure sine wave output
- Self-consumption and Feed-in to the grid
- Programmable supply priority for PV, Battery or Grid
- User-adjustable battery charging current suits different types of batteries
- 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, RS-232, Modbus and SNMP

INIFINISOLAR E 5.5KW HYBRID INVERTER

MODEL	InfiSolar E 5.5KW
Maximum PV Input Power	6500 W
Rated Output Power	5500 W
Maximum Charging Power	2880 W
GRID-TIE OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
GRID OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Max. Output Current	13.9A*
Power Factor	> 0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	96%
European Efficiency@ Vnominal	95%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 -280 VAC
Maximum AC Input Current	40 A
PV INPUT (DC)	
Maximum DC Voltage	500 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Waveform	Pure sinewave
Efficiency (DC to AC)	93%



INIFINISOLAR E 5.5KW HYBRID INVERTER

MODEL	InfiniSolar E 5.5KW
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC
MPP Voltage Range	120 VDC ~ 450 VDC
Number of MPP Trackers / Maximum Input Current	2 / 2 x 13 A
GRID OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Output Voltage Range	184 - 264.5 VAC*
Max. Output Current	13.9A*
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC
Acceptable Input Voltage Range	170 -280 VAC
Maximum AC Input Current	40A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	202/208/220/230/240 VAC
Efficiency (DC to AC)	93%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	60 A
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	110 x 450 x 445
Net Weight (kgs)	16
INTERACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-condensing)
Operating Temperature	0 to 40°C
Altitude	0 ~ 1000 m**

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