

Three Infini MultiSolar inverters are shown, increasing in size from left to right. Each unit is green with black side panels and features the Infini logo and a digital display on the front. The units are labeled as follows:

- MultiSolar 3KW Plus/5KW
- MultiSolar Plus 5KW
- MultiSolar 3-phase 10KW

The diagram compares two solar power system architectures. On the left, the 'Conventional Way' shows a linear flow: Solar PV array → Inverter → Utility. On the right, the 'Innovative Way' shows a central inverter connected to three components: Solar PV array, Battery, and a combination of Utility and Load. The 'Innovative Way' is highlighted with a blue header and pink arrows.

Diagram illustrating a Standalone PV System. The system consists of a Solar PV array, a Battery, an Inverter, a Load (light bulb), and a Utility (power lines). The Solar PV array and Battery are connected to the Inverter. The Inverter is connected to the Load and the Utility. A red arrow points from the Inverter to the Utility, labeled "No need", indicating that the system is self-sufficient and does not require grid connection.

The diagram illustrates a power system configuration. On the left, a 'Solar PV array' (represented by a sun icon) and a 'Battery' (represented by a battery icon) are connected to a central green box. A large red 'X' is placed on the line connecting the green box to the 'Utility' (represented by a plug icon) and 'Load' (represented by a light bulb icon), indicating a fault or disconnection. The 'Utility' and 'Load' are shown as separate components on the right.

MultiSolar On-grid Inverter with Energy Storage Selection Guide

MODEL	MultiSolar Plus 3KW		MultiSolar 5KW		MultiSolar Plus 5KW	MultiSolar 3P 10KW
PHASE	1-phase in / 1-phase out					3-phase in / 3-phase out
MAXIMUM PV INPUT POWER	4500 W		5000 W		10000 W	14850 W
RATED OUTPUT POWER	3000 W		5000 W		5000 W	10000 W
MAXIMUM CHARGING POWER	1200 W		1500 W		4800 W	9600 W
GRID-TIE OPERATION						
PV INPUT (DC)						
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC				720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC				225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC		277 VDC ~ 450 VDC		250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A				2 / 2 x 10 A	2 / 2 x 18.6A
GRID OUTPUT (AC)						
Nominal Output Voltage	208/220/230/240 VAC					230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC*					184 - 265 VAC* per phase
Nominal Output Current	13 A	21 A		21 A		14.5A per phase
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					120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC					170 - 280 VAC per phase
Maximum AC Input Current	30 A			40 A		
PV INPUT (DC)						
Maximum DC Voltage	500 VDC		500 VDC		900 VDC	900 VDC
MPP Voltage Range	250 VDC ~ 450 VDC		277 VDC ~ 450 VDC		250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A		1 / 1 x 18 A		2 / 2 x 10A	2 / 2 x 18.6A
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	202/208/220/230/240 VAC		220/230/240 VAC		202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sinewave					
Efficiency (DC to AC)	93%					91%
HYBRID OPERATION						
PV INPUT (DC)						
Nominal DC Voltage / Maximum DC Voltage	360 VDC / 500 VDC		360 VDC / 500 VDC		720 VDC / 900 VDC	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	116 VDC / 150 VDC		116 VDC / 150 VDC		225 VDC / 250 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 450 VDC		277 VDC ~ 450 VDC		250 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Number of MPP Trackers / Maximum Input Current	1 / 1 x 18 A		1 / 1 x 18 A		2 / 2 x 10A	2 / 2 x 18.6A
GRID OUTPUT (AC)						
Nominal Output Voltage	202/208/220/230/240 VAC		220/230/240 VAC		202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 264.5 VAC*					184 - 264.5 VAC* per phase
Nominal Output Current	13 A		21 A		21 A	
AC INPUT						
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC / 180 VAC					120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC					170 - 280 VAC per phase
Maximum AC Input Current	30 A			40 A		
BATTERY MODE OUTPUT (AC)						
Nominal Output Voltage	202/208/220/230/240 VAC		220/230/240 VAC		202/208/220/230/240 VAC	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	93%					91%
BATTERY & CHARGER						
Nominal DC Voltage	48 VDC					
Maximum Charging Current	Default 25A, 5A - 25A (Adjustable)		Default 30 A, 5A - 30A (Adjustable)		Default 60A, 5A - 100A (Adjustable)	Default 60A, 10A - 200A (Adjustable)
GENERAL						
PHYSICAL						
Dimension, D X W X H (mm)	107 x 438 x 480				204.2 x 460 x 600	167.5 x 500 x 622
Net Weight (kgs)	15.5		16		29	45
INTERFACE						
Communication Port	RS-232/USB				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	0 to 40°C				-10 to 55°C	
Altitude	0 ~ 1000 m**					

*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.

CE VDE-AR-N 4105

AS4777, AS/NZS3100, NRS-097-2-1 (only for multisolar Plus 3KW)

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