

FlinInfini Lite Solar Hybrid Inverter

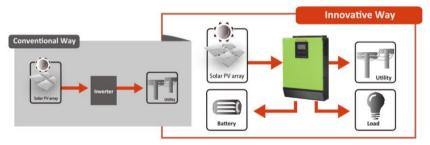
On-grid Hybrid Inverter with Energy Storage



- Low Solar Panel Setup Cost: With the MPPT operating range, setup the solar panel with less cost at initial stage and expand easily in future
- Flexibility of Solar Panel selection: With the isolated solar input design, FlinInfini Lite is available for all kinds of solar panels.
- Very Powerful High Charging Current: FlinInfini Lite model is built in with 60A AC charger and 80A solar charger
- ➤ **High DC-AC Conversion Efficiency:** 93% of DC-AC conversion efficiency helps to maximize power availability for connected load with minimize energy loss.

■ Feed-in to Grid + Load + Battery Charging

With enough solar power, FlinInfini Lite converts the solar power to power the load and charge the battery. The extra power will feed-in to the Grid.



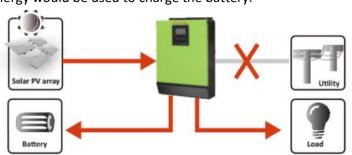
Pay Less Electricity Bill

FlinInfini Lite uses solar power to power the load directly. If solar power is not enough, it will use the battery energy to power the load. Only if both solar power is low and battery voltage is low, it will draw power from the Grid



Battery Backup when AC Fail

If the Grid is not available, FlinInfini Lite will power the load directly from the solar power and the extra solar energy would be used to charge the battery.

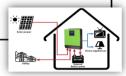




FlinInfini Lite: On-Grid Inverter with Energy Storage



- Pure sine wave output
- > Self-consumption and Feed-in to the grid
- Customizable supply priority for PV, Battery or Grid
- > User-adjustable charging current and voltage
- Multiple opérations : Grid-tie, off-grid and grid-tie with backup
- Monitoring software for real-time status display and control
- Parallel operation up to 6 units is available for 3K/4K/5K



Specifications for FlinInfini Lite Series of Hybrid Inverters

145 VUC	MODEL	2K-24V	4K-48V	5kW-48	3P 6kW-48V
Maximum PV Array Open Circuit Voltage 145 VDC 145 VDC 145 VDC 450 VDC MPPT Range @ Operating Voltage 30 VDC ~ 115 VDC 60 VDC ~ 115 VDC 120 VDC ~ 400 VDC Phase Single Phase Single Phase Single Phase Three Phase Number of MPPT Trackers 1 1 2 3 GRID-TIE OPERATION Single Phase Single Phase Three Phase Nominal Output Voltage 220/730/240 VAC Output Voltage Range 195.5°253 VAC @India regulation =nd 184 ~ 264.5 VAC @Germany regulation Nominal Output Current 8.7A 17.4A 21.7A 8.7A per phase Power Factor > 0.99 96% 96% 196% CIFCIENCY Maximum Conversion Efficiency (pCC/AC) 90% 96% 120-140 VAC / 180 VAC 96% OFF-GRID, HYBRID OPERATION GRID HYBRID OPERATION 120-140 VAC / 180 VAC 120-140 VA	Max. PV Array Power	2000W	4000W	6000W	9000W
145 VUC	Rated Output Power	2000W	4000W	5000W	6000W
MPPT Range @ Operating Voltage 30 VDC ~ 115 VDC 60 VDC ~ 115 VDC 120 VDC ~ 400 VDC Phase Single Phase Single Phase Three Phase Number of MPPT Trackers 1 1 2 3 GRID-TIE OPERATION GRID OUTPUT (AC) WITHOUT VOLTAGE VOLTAGE VALUE VOLTAGE VOLTAGE VALUE VOLTAGE 220/230/240 VAC Output Voltage Range 195.5~253 VAC @India regulation and 184 ~ 264.5 VAC @Germany regulation Nominal Output Current 8.7A 17.4A 21.7A 8.7A per phase Power Factor 90% 96% 96% 96% 96% CPF-GRID, HYBRID OPERATION POPERATION POPERATION 90% 96% 96% OFF-GRID, HYBRID OPERATION POPERATION POPERATION 120-140 VAC / 180 VAC 120-140 VAC / 180 VAC per phase Acceptable Input Voltage / Auto Restart Voltage 120-140 VAC / 180 VAC 120-140 VAC / 180 VAC per phase 170-280 VAC per phase BATTERY MODE OUTPUT (AC) 30A 40A 20A per phase 20A per phase Nominal Output Voltage 202/2028/20/230/240 VAC 20A per phase 30A 20A per phase<	Maximum PV Array Open Circuit Voltage	145 VDC	145 VDC	145 VDC	450 VDC
Number of MPPT Trackers 1 1 1 2 3 3 GRID - LEC OPERATION STRIPP OF PERATION STRIPP OF	MPPT Range @ Operating Voltage	30 VDC ~ 115 VDC	60 VDC ~ 115 VDC	60 VDC ~ 115 VDC	120 VDC ~ 400 VDC
Number of MPPT Trackers 1 1 1 2 3 3 GRID - LEC OPERATION STRIPP OF PERATION STRIPP OF		Single Phase	Single Phase	Single Phase	Three Phase
Nominal Output Voltage	Number of MPPT Trackers	-			3
Nominal Output Voltage 195.5°253 VAC @India regulation and 184 ~ 264.5 VAC @Germany regulation Nominal Output Voltage Range 195.5°253 VAC @India regulation and 184 ~ 264.5 VAC @Germany regulation Nominal Output Current 8.7A 17.4A 21.7A 8.7A per phase Nominal Output Voltage	GRID-TIE OPERATION				
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Nominal Output Current 8.7A 17.4A 21.7A 8.7A per phase Power Factor > 0.99 EFFICIENCY Maximum Conversion Efficiency (DC/AC) 90% 96% OFF-RRID, HYBRID OPERATION GRID INPUT AC Start-up Voltage / Auto Restart Voltage 120-140 VAC / 180 VAC 120-140 VAC / 180 VAC per phase Acceptable Input Voltage Range 170 - 280 VAC 170 - 280 VAC per phase Maximum AC Input Current 30A 40A 20A per phase BATTERY MODE OUTPUT (AC) Nominal Output Voltage 202/208/220/230/240 VAC Output Waveform Pure sine wave Efficiency (Dc to Ac) BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 80 A 120 A 60A Per Phase Maximum Charge Current 140 A 180 A 180 A PHYSICAL Dimension, D x W x H (mm) 100 x 3	·				many regulation
### Page 12	Nominal Output Current				
Maximum Conversion Efficiency (DC/AC) 90% 96% OFF-GRID, HYBRID OPERATION GRID INPUT AC Start-up Voltage / Auto Restart Voltage 120-140 VAC / 180 VAC 120-140 VAC / 180 VAC 170 -280 VAC 170 -280 VAC per phase Maximum AC Input Current 30A 40A 20A per phase 20A per phase BATTERY MODE OUTPUT (AC) Nominal Output Voltage 202/208/22∪/230/240 VAC VAC Output Waveform Pure sine wave Efficiency (DC to AC) 93% BATTERY & CHARGER Valve 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 80 A 120 A 60A Per Phase Maximum AC Charge Current 140 A 180 A 180 A Maximum Charge Current 140 A 180 A 180 A Maximum AC (harge Current 140 A 180 A 180 A Maximum AC (harge Current 140 A 180 A 180 A Maximum AC (harge Current	Power Factor				
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AC Start-up Voltage Auto Restart Voltage Auto Restart Voltage Acceptable Input Voltage Range 170 - 280 VAC 180 VAC 180 VAC 180 VAC 180 VAC 170 - 280	i di				
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Voltage phase Acceptable Input Voltage Range 170 - 280 VAC 170 - 280 VAC per phase Maximum AC Input Current 30A 40A 20A per phase BATTERY MODE OUTPUT (AC) Nominal Output Voltage 202/208/220/230/240 VAC Output Waveform Pure sine wave Efficiency (DC to AC) 93% BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 180 A 180 A 180 A Maximum Charge Current 180 A 180 A 180 A BATERY & CHARGER PHYSICAL DIMON AND AND AND AND AND AND AND AND AND AN	AC Start-up Voltage / Auto Restart	120-140 VAC / 180 VAC			•
Maximum AC Input Current 30A 40A 20A per phase BATTERY MODE OUTPUT (AC) Nominal Output Voltage 202/208/220/230/240 VAC Output Waveform Pure sine wave Efficiency (DC to AC) 93% BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 60 A 60A Per Phase Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes N/A External Safety Box (Optional) Yes N/A		,			<u>'</u>
BATTERY MODE OUTPUT (AC) Nominal Output Voltage 202/208/220/230/240 VAC Output Waveform Pure sine wave Efficiency (DC to AC) 93% BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 60 A 60A Per Phase Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No					
Nominal Output Voltage 202/208/220/230/240 VAC Output Waveform Pure sine wave Efficiency (DC to AC) 93% BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 60 A 180 A 180 A Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Ves Yes N/A	·	30A 40A 20A per phase			
Output Waveform Pure sine wave Efficiency (DC to AC) 93% BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 60 A 180 A 180 A Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No					
Efficiency (DC to AC) BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 60 A 60A Per Phase Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No No		202/208/220/230/240 VAC			
BATTERY & CHARGER Nominal DC Voltage 24 VDC 48 VDC Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 60 A 60A Per Phase Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No					
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Maximum Solar Charge Current 80 A 120 A 60A Per Tracker Maximum AC Charge Current 60 A 180 A 60A Per Phase Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No	BATTERY & CHARGER				
Maximum AC Charge Current 60 A 60 A Per Phase Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No No	Nominal DC Voltage	24 VDC		48 VDC	
Maximum Charge Current 140 A 180 A 180 A GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No No	Maximum Solar Charge Current	80 A 120 A		60A Per Tracker	
GENERAL PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No No	Maximum AC Charge Current	60 A		60A Per Phase	
PHYSICAL Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No No	Maximum Charge Current	140 A 180 A		180A	
Dimension, D x W x H (mm) 100 x 300 x 450 120 x 295 x 468 194 x 295 x 455 590 x 260 x 650 Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No No	GENERAL				
Net Weight (kgs 8 11 16 36 INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No No	PHYSICAL				
INTERFACE Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No	Dimension, D x W x H (mm)	100 x 300 x 450	120 x 295 x 468	194 x 295 x 455	590 x 260 x 650
Parallel Function N/A Yes Yes N/A External Safety Box (Optional) Yes No	Net Weight (kgs	8	11	16	36
External Safety Box (Optional) Yes No	· ·				
		N/A		Yes	N/A
Communication USB/Dry contact	External Safety Box (Optional)		Yes		No
	Communication	USB/Dry contact			
	ENVIRONMENT				
	Humidity	·			
Operating Temperature 0 to 50°C	Operating Temperature	0 to 50°C			

Product specifications are subject to change without further notice

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