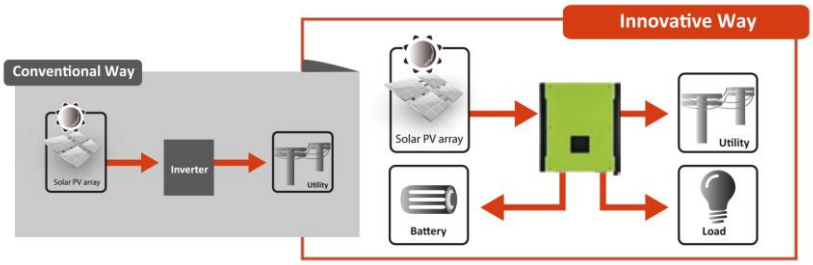
FlinInfini 15kW-48V Solar Hybrid Inverter

On-grid Hybrid Inverter with Energy Storage

- Pure sinewave output
- Microprocessor controlled to guarantee stable charging system
- Multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in MPPT solar charger
- LCD Display panel for comprehensive information
- Multiple communication for USB, RS-232, Modbus and SNMP
- User-adjustable battery charging current up to 300A
- Parallel up to 6 inverters to make 90kW

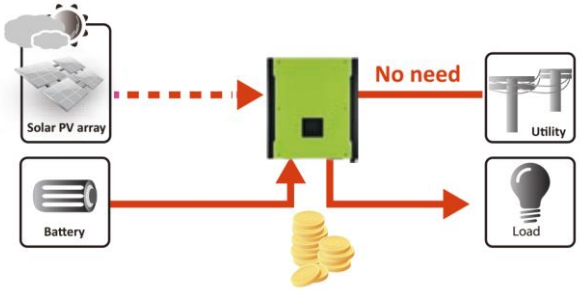
Feed-in is not the only choice

In comparison with conventional solar grid-tie inverter, FlinInfini is able to not only feed-in power to grid but also store power to battery for future usage and directly power to the load.



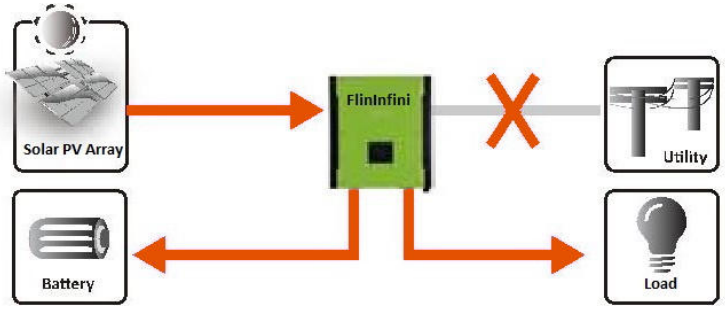
Save money by discharging battery for self-consumption first

FlinInfini can save money by using battery power first when PV energy is low. If battery voltage is low, FlinInfini will extract AC power from grid.



Power Backup when AC Fails

FlinInfini can also work as on off-grid inverter to provide continuous power even when there is no power from grid. It is a solution for you if you would like to fee-in but also have power during power cuts.



FlinInfini On-Grid Inverter with Energy Storage

- Self-consumption and Feed-in to the grid
- Programmable supply for priority for PV, Grid or Battery
- User-adjustable charging current up to 300A
- Programmable multiple operations mode: Off grid, Grid-tie and grid-tie with backup
- Built-in timer for various modes of on/off operation
- Multiple communication for USB, RS-232, Modbus and SNMP
- Monitoring software for real time status display and control
- Parallel up to 6 inverters

MODEL	15KW-48V
Phase	3 Phase In, 3 Phase Out
Rated Output Power	15000 W
Maximum Charging Power	15000 W
PV INPUT (DC)	
Maximum DC Power	22500 W
Nominal DC Voltage	720 VDC
Maximum DC Voltage	900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	400 VDC ~ 800 VDC
Number of MPP Trackers	2
Maximum Input Current	37.76A & 18.6A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure Sinewave
Efficiency (DC to AC)	91%
GRID-TIE OPERATION	
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 264.5 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	21.7 A per phase
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 per phase/ 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A
HYBRID OPERATION	
GRID/UTILITY OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 264.5 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	14.5 A 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 & CHARGER	
Nominal Battery Voltage	48 VDC
Maximum Charging Current	Default 60 A, 5A - 300 A (adjustable)
GENERAL	
PHYSICAL	
Dimension, D X W X H (mm)	820 x 650 x 219
Net Weight (kgs)	62
INTERFACE	
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°C to 55°C
Altitude	0 ~ 1000 m**

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

Product specifications are subject to change without further notice

Phone: +91 99871 16660 www.flinenergy.com contact@flinenergy.com