# SFlin Energy

## 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 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 Lite : On-Grid Inverter with Energy Storage



- > 10KW three phase 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 200A
- > 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	10KW-48V
Phase	3 Phase In, 3 Phase Out
Rated Output Power	10000 W
Maximum Charging Power	9600 W
PV INPUT (DC)	
Maximum DC Power	15000 W
Nominal DC Voltage	720 VDC
Maximum DC Voltage	
Start-un Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPD Voltage Pange	
Number of MDD Trackers	330 000 300 000
Maximum Input Current	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	2 X 10.0 A
GRID-THE OPERATION	
Nominal Output Voltage	220.V/AC / D.N.V. / 400.V/AC / D.D.
Outrut Voltage	
Output Voltage Kange	184 - 264.5 VAL per priase
Newsing L Output Compare	47.5 * 51.5 HZ 07 59.3 * 60.5 HZ
	14.5 A per phase
Maximum Conversion Efficiency (DC/AC)	> 96%
European Efficiency @ Vnominal	> 95%
OFF-GRID OPERATION	
ACINPUT	
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	25 A
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 Sinewaye
Efficiency (DC to AC)	91%
Efficiency (DC to AC) HYBRID OPERATION	91%
Efficiency (DC to AC) HYBRID OPERATION GRID/UTILITY OUTPUT (AC)	91%
Efficiency (DC to AC) HYBRID OPERATION GRID/UTILITY OUTPUT (AC) Nominal Output Voltage	91% 230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC) HYBRID OPERATION GRID/UTILITY OUTPUT (AC) Nominal Output Voltage Output Voltage Range	91% 230 VAC (P-N) / 400 VAC (P-P) 184 - 264.5 VAC per phase
Efficiency (DC to AC) HYBRID OPERATION GRID/UTILITY OUTPUT (AC) Nominal Output Voltage Output Voltage Range Output Frequency Range	91% 230 VAC (P-N) / 400 VAC (P-P) 184 - 264.5 VAC per phase 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz
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Efficiency (DC to AC) HYBRID OPERATION GRID/UTILITY OUTPUT (AC) Nominal Output Voltage Output Voltage Range Output Frequency Range Nominal Output Current AC INPUT	91% 230 VAC (P-N) / 400 VAC (P-P) 184 - 264.5 VAC per phase 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz 14.5 A per phase
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Efficiency (DC to AC) HYBRIO OPERATION GRID/UTILITY OUTPUT (AC) Nominal Output Voltage Output Voltage Range Output Frequency Range Nominal Output Current AC INPUT AC Start-up Voltage/ Auto Restart Voltage Acceptable Input Voltage Range Maximum AC Input Current BATTERY MODE OUTPUT (AC) Nominal Output Voltage Output Frequency Output Frequency Output Waveform Efficiency (DC to AC) BATTERY & CHARGER Nominal Battery Voltage Maximum Charging Current GENERAL PHYSICAL Dimension, D X W X H (mm) Net Weight (kgs) INTERFACE Communication Port Intelligent Slot	91% 91% 230 VAC (P-N) / 400 VAC (P-P) 184 - 264.5 VAC per phase 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz 14.5 A per phase 120 - 140 VAC per phase/180 VAC per phase 120 - 140 VAC per phase/180 VAC per phase 25 A 230 VAC (P-N) / 400 VAC (P-P) 50 Hz / 60 Hz (auto sensing) Pure Sine Wave 91% 48 VDC Default 60 A, 5A - 200 A (adjustable) 622 x 500 x 167.5 45 RS-232/USB and CAN interface Optional SNMP, Modbus, and AS-400 cards available
Efficiency (DC to AC)  Ffficiency (DC to AC)  GRID/UTILITY OUTPUT (AC)  Nominal Output Voltage  Output Voltage Range  Output Voltage Range  Output Frequency Range Nominal Output Current  AC INPUT  AC Start-up Voltage/ Auto Restart Voltage  Acceptable Input Voltage Range  Maximum AC Input Current  BATTERY MODE OUTPUT (AC)  Nominal Output Voltage  Output Frequency  Output Frequency  Output Waveform  Efficiency (DC to AC)  BATTERY & CHARGER  Nominal Battery Voltage  Maximum Charging Current  GENERAL  PHYSICAL  Dimension, D X W X H (mm)  Net Weight (kgs)  INTERFACE  Communication Port Intelligent Slot  ENVIRONMENT  Humidity	91% 91% 230 VAC (P-N) / 400 VAC (P-P) 184 - 264.5 VAC per phase 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz 14.5 A per phase 120 - 140 VAC per phase/ 180 VAC per phase 120 - 140 VAC per phase/ 180 VAC per phase 25 A 230 VAC (P-N) / 400 VAC (P-P) 50 Hz / 60 Hz (auto sensing) Pure Sine Wave 91% 48 VDC Default 60 A, 5A - 200 A (adjustable) 622 x 500 x 167.5 45 RS-232/USB and CAN interface Optional SNMP, Modbus, and AS-400 cards available
Efficiency (DC to AC)         HYBRIO OPERATION         GRID/UTILITY OUTPUT (AC)         Nominal Output Voltage         Output Voltage Range         Output Frequency Range         Nominal Output Current         AC Start-up Voltage/ Auto Restart Voltage         Acceptable Input Voltage Range         Maximum AC Input Current         BATTERY MODE OUTPUT (AC)         Nominal Output Voltage         Output Frequency         Output Frequency         Output Voltage         Output Voltage         Output Waveform         Efficiency (DC to AC)         BATTERY & CHARGER         Nominal Battery Voltage         Maximum Charging Current         GENERAL         PHYSICAL         Dimension, D X W X H (mm)         Net Weight (kgs)         INTERFACE         Communication Port         Intelligent Slot         ENVIRONMENT         Humidity         Onserting Tomporature	91% 91% 91% 91% 230 VAC (P-N) / 400 VAC (P-P) 184 - 264.5 VAC per phase 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz 14.5 A per phase 120 - 140 VAC per phase 120 - 140 VAC per phase 120 - 140 VAC per phase 25 A 230 VAC (P-N) / 400 VAC (P-P) 50 Hz / 60 Hz (auto sensing) Pure Sine Wave 91% 48 VDC Default 60 A, 5A - 200 A (adjustable) 622 x 500 x 167.5 45 RS-232/USB and CAN interface Optional SNMP, Modbus, and AS-400 cards available 0 ~ 90% RH (No condensing)
Efficiency (DC to AC)         HYBRIO OPERATION         GRID/UTILITY OUTPUT (AC)         Nominal Output Voltage         Output Voltage Range         Output Frequency Range         Nominal Output Current         AC Start-up Voltage/ Auto Restart Voltage         Acceptable Input Voltage Range         Maximum AC Input Current         BATTERY MODE OUTPUT (AC)         Nominal Output Voltage         Output Frequency         Output Frequency         Output Voltage         Output Waveform         Efficiency (DC to AC)         BATTERY & CHARGER         Nominal Battery Voltage         Maximum Charging Current         GENERAL         PHYSICAL         Dimension, D X W X H (mm)         Net Weight (kgs)         INTERFACE         Communication Port         Intelligent Slot         ENVIRONMENT         Humidity         Operating Temperature         Altitude	91% 91% 230 VAC (P-N) / 400 VAC (P-P) 184 - 264.5 VAC per phase 47.5 ~ 51.5 Hz or 59.3 ~ 60.5 Hz 14.5 A per phase 120 - 140 VAC per phase/180 VAC per phase 120 - 140 VAC per phase/180 VAC per phase 25 A 230 VAC (P-N) / 400 VAC (P-P) 50 Hz / 60 Hz (auto sensing) Pure Sine Wave 91% 48 VDC Default 60 A, 5A - 200 A (adjustable) 622 x 500 x 167.5 45 RS-232/USB and CAN interface Optional SNMP, Modbus, and A5-400 cards available 0 ~ 90% RH (No condensing) -10°C to 55°C

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

Product specifications are subject to change without further notice

#### www.flinenergy.com

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