

Solar Hybrid Inverter

FlinInfini Turbo Plus 10kW-48V



WiFi
Monitoring



Dual
Input & Output



Wide
4.3" Display



BMS
Communication



99%
Soundless functionality



Special Features

- Pure Sine Wave Solar Inverter
- Dual Input and Dual Output
- 18kW PV capacity with Dual MPPT
- Compatible with Lead-Acid, Lithium-Ion, and LiFePO4 batteries & can be used without batteries also
- Smart generator control via dry contact. Generator can be used for battery charging as well
- Parallel operation up to 9 units in single phase or three phase
- Supports Smart Grid Export Control
- Communication ports: WiFi, RS232, USB & RS485 (BMS)
- Option to export solar and also battery power
- User-Friendly Display with 4.3" touch-based LCD HMI for easy configuration

Flin Energy presents the FlinInfini Turbo Plus 10kW-48V - The Silent Inverter. India's first IP66-rated solar hybrid inverter -engineered for superior durability, intelligent energy management, and seamless power continuity. Designed for both residential and commercial applications, it combines advanced technology with user-friendly operation—delivering reliable power, anytime, anywhere.



IP66 Rated - Dustproof & Water Resistant

Built to perform in all conditions, the FlinInfini Turbo Plus offers complete dust and water protection, making it ideal for outdoor and industrial use with long-term reliability



Time of Day Scheduling

Set multiple charging & discharging schedules Maximize solar usage and reduce electricity bills through optimized energy planning



Smart Power Management



Dual Grid Inputs : Supports utility and generator inputs with automatic switching

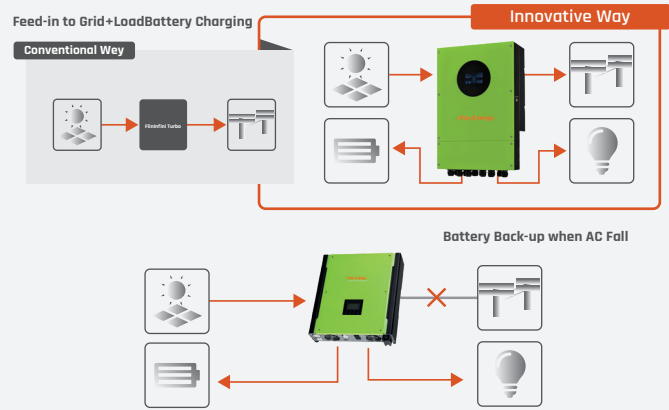


Dual Outputs : Separate outputs for essential and non-essential loads for intelligent energy prioritization.



Advanced Hybrid & Grid Export Features

- **Net Metering Ready** - Use solar for loads, charge batteries, and export surplus power to the grid
- **Battery-to-Grid Export Option** - Export stored battery energy when enabled
- **Seamless Backup During Power Outages** - Solar & battery continue run loads even without grid or generator



Specifications

MODELS		10kW-48V
RATED POWER		10600 VA / 10600 W
Parallel Capability		Yes, up to 9 units
GRID OUTPUT AC	Nominal Output Voltage	230 VAC
	Nominal Output Current	46.1A
	Power Factor	>0.99
	Maximum Conversion Efficiency (DC/AC)	>97%
AC INPUT	Acceptable Input Voltage Range	90-280VAC or 170-280VAC
	Frequency Range	50 Hz/60 Hz (Auto Sensing)
	Maximum AC Input Current	60A
PV INPUT(DC)	Maximum PV input	18000W (2 x 9000W)
	Maximum DC Voltage	500 VDC
	MPP Voltage Range	120 VDC - 450 VDC
	Number of MPP Trackers/ Maximum Input Current	2 / 27A
BATTERY MODE OUTPUT (AC)	Nominal Output Voltage	220/230/240 VAC
	Output Waveform	Pure Sine Wave
	Efficiency (DC to AC)	90%-93%
BATTERY CHARGER	Battery Type	Lead-Acid /Lithium-Ion
	Battery Voltage Range (V)	40-60 VDC
	Nominal DC Voltage	48 VDC
	Maximum Solar Charging Current	210A
	Maximum AC Charging Current	210A
	Maximum Charging Current	210A
PHYSICAL & COMMUNICATION	Dimension (D x W x H) mm	192 x 418 x 633
	Net Weight (kgs)	33.0
	Communication	RS-232, USB, RS485 (For BMS), WiFi, Dry Contact
OPERATING ENVIRONMENT	Humidity	0% to 100% Relative Humidity (Non-condensing)
	Operating Temperature	-10°C - 50°C
CERTIFICATIONS	Compliance	CE, BIS

*Product specifications are subject to change without further notice