Flin Energy

Solar Hybrid Inverter

FlinInfini Turbo Plus 6kW-48V

- **WiFi Monitoring**
- **Dual Input & Output**
- **Wide 4.3" Display**
- **BMS Communication**

Special Features

- Pure Sine Wave Solar Inverter
- Dual Input and Dual Output
- 12kW 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 6kW-48V 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

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.

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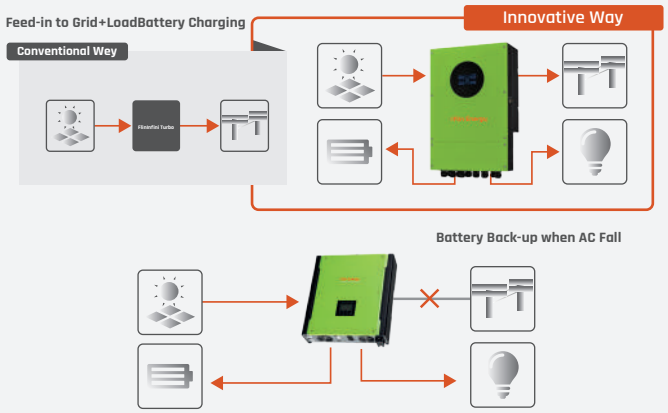
Advanced Hybrid & Grid Export Features

- **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	6kW-48V
RATED POWER	6600 VA / 6600 W
Parallel Capability	Yes, up to 9 units
GRID OUTPUT AC	
Nominal Output Voltage	230 VAC
Nominal Output Current	28.7A
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	40A
PV INPUT(DC)	
Maximum PV input	12000W (2 x 6000W)
Maximum DC Voltage	500 VDC
MPPT Voltage Range	120 VDC - 450 VDC
Number of MPPT Trackers/ Maximum Input Current	2 / 21A
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	135A
Maximum AC Charging Current	135A
Maximum Charging Current	135A
PHYSICAL & COMMUNICATION	
Dimension (D x W x H) mm	192 x 418 x 633
Net Weight (kgs)	23.5
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