



FlinInfini TX 30kW Solar Hybrid Inverter

Built-in Galvanic Isolation Transformer | Up to 45kW PV | Expandable to 120kW



- ✦ Pure Sine Wave solar three-phase inverter with 95% peak efficiency
- ✦ Connect up-to 45kW of solar array
- ✦ Built-in galvanic isolation transformer ensures safety & efficiency
- ✦ Programmable operations and power supply priority for: PV, Battery or Grid
- ✦ Adjustable Operational Modes: Off-grid to Grid-tie with battery backup
- ✦ Advanced Monitoring software included for real-time status, display and controls
- ✦ User adjustable charging current option
- ✦ Power Factor: 1
- ✦ Reduces power line noise, surges, spikes & transients

Galvanic Isolation Transformer Design

The built-in isolation transformer provides galvanic isolation and is used to protect against electric shock, to suppress electrical noise in sensitive devices, or to transfer power between two circuits which must not be connected. It is designed to reduce electromagnetic noise involved with output current. Due to this design, one can run sensitive electrical equipment smoothly without the risk of power surge.



Expandable to 120kW

This model of FlinInfini has parallel capability of connecting up-to 4 such inverters with each other. This allows one to power up-to 120kW of total load using solar array of up to 180kW.

Highly Customizable with Automatic Switching

FlinInfini TX is designed to offer great flexibility in user operations. It comes with multiple options which can be set at the time of installation as per user preferences and after that it works automatically on its own. The switching between different power sources is seamless and intelligently handled by the system depending upon the available resources of grid, solar and battery power.



Cost Effective Hybrid Solar Solution

FlinInfini TX complete solar package includes Solar Inverter, 45kW of solar panels, 2V 300AH or 600Ah cells and all required accessories to make installation super easy. The complete package is available at almost the cost of a similar on-grid solar solution making it one of the most economical and robust hybrid solar solution in the industry.

Specifications of FlinInfini TX 30kW Three-phase Solar Hybrid Inverter

MODEL	FlinInfini TX 30kW
Rated Output Power	30 kW
Maximum PV Input Power	45 kW
Maximum Charging Power	30 kW
Phase	3 Phase
GRID-TIE OPERATION	
PV Input	
Nominal DC Voltage / Max DC Voltage	720 VDC / 950 VDC
Startup Voltage / Initial Feeding Voltage	500 VDC / 550 VDC
Number of MPP Trackers	1
MPPT Voltage Range	460 VDC ~ 900 VDC
Maximum Input Current	72 A
Grid Output	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	195.5 - 253 VAC per phase
Nominal Output Current	43.5 A per phase
Output Frequency Range	49 ~ 51 Hz or 59.3 Hz ~ 60.5 Hz
Power Factor	1
Efficiency	
Maximum Conversion Efficiency (DC / AC)	95%
OFF-GRID & HYBRID OPERATION	
AC Input	
AC Startup Voltage / Auto Restart Voltage	150 - 170 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	43.5 A per phase
Battery Mode Output (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Waveform	Pure Sine Wave
Efficiency (DC to AC)	91%
Battery & Charger	
Nominal DC Voltage	384 VDC
Charging Voltage Range	384 VDC ~ 480 VDC
Maximum Charging Current	80 A
GENERAL	
Dimension, D X W X H (mm)	430 x 715 x 1021
Net Weight (kgs)	223
Communication	RS232/USB
Intelligent Slot	Optional SNMP, GPRS, WIFI, Modbus cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Ingress Protection Rating	IP20
Maximum Altitude	Maximum 2000m**
Operating Temperature	-10°C to 50°C (power derating above 50°C)

*Product specifications are subject to change without further notice

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