INDIA'S FIRST AI-POWERED GRID TIE INVERTER-ENERTRON

EnerTech
Answering All Power Needs

MAKE IN INDIA

SMARTER ENERGY, SEAMLESS SAVINGS !!

EnerTron GTI
2kW ~ 6kW | 1Ph / Single & Dual MPPT &
5kW ~ 25kW | 3Ph / Dual MPPT

#1 Solar & Power Products

Manufacturing Company.

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MADE IN INDIA
MADE FOR WORLD

Enertech specializes in providing highly customizable EnerCube battery energy storage solution for IPPs, C&I and utilities in the renewable space.

The EnerTech® products cover main application

o Industrial and commercial energy storage with renewable integration Solar PCU.

- BESS.
- Industrial UPS
- Battery Charger
- Static Frequency Converter.

EnerTech® Products are designed with 100 % indigenous technology. EnerTech® has its own RnD setup for constant development in features and new products.

- 30+ Years R&D Experience.
- R&D Recognized by DSIR Govt. of India.
- 500+ Partners.
- 500+ IGBT & Zero Change Over Time.
- 150+ MW Delivery Power.
- 35K+ Installation Across Globe.
- BIS Approved Products

EnerTech Product Family

Grid Tie Inverter
2kW-6kW | Single Phase

Online UPS
5kVA-300kVA | 1-1, 3-1 & 3-3 Phase

Solar Hybrid PCU
5kVA-300kVA | 1P & 3P

Off Grid Inverter
5kVA-300kVA | 1P & 3P

Static Frequency Converter
5kVA-300kVA | 50/60/400 Hz

DC Battery Charger
48V/110/220V Upto 800A | 1-1 & 3-3

BESS
kW-MW | 1P & 3P

Solar Online UPS
5kVA-300kVA | 1-1, 3-1 & 3-3 Phase

Industrial Inverter
5kVA-300kVA | 1-1, & 3-3 Phase

Voltage Stabilizer
5kVA-300kVA | 1-1, & 3-3 Phase

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India's First AI-Powered EnerTron Grid Tie Inverter

Smarter Energy, Seamless Savings !!

8 Years Warranty

BIS Approved

20A Max PV Input Current

Designed for optimal performance, our Grid-Tied Inverter supports a maximum PV input current of 20A, ensuring efficient energy conversion from your solar panels.

Compatible with High WP Module

Designed for seamless integration, our Grid-Tie Inverter is fully compatible with high-watt peak (WP) modules, ensuring maximum efficiency and reliable solar energy conversion.

Low start- up Voltage

Our Grid-Tied Inverter with low start-up voltage ensures early power generation, maximizing energy output even in low sunlight.

50% DC Overloading

Engineered with 50% DC overloading capability, our Grid-Tied Inverter allows for higher solar panel input, maximizing energy harvest and system efficiency.

Compact Size & High Power Density

Designed for optimal performance, our Grid-Tied Inverter supports a maximum PV input current of 20A, ensuring efficient energy conversion from your solar panels.

Easy to Install

Make In India Product

Remote Monitoring, Configuration & Upgrade

IP65 Protection Level, Built-in SPD Protection Device

Specification: EnerTron 1Ph GTI

Model	2kw	3kw	3.3kw / 3.4kw	4kw	4kw	5kw	6kw	6kw
PV Input								
Max. Recommended PV Power [Wp]	2600	3300	3800	4000	4800	6000	6500	
Max. PV Input Voltage [V]	500V				550V			550V
MPPT Voltage Range [V]	60 ~ 500 V				100-520 V			100-500 V
Start-up Voltage [V]	70V				100V			100V
No. of MPP Trackers	1				2			1
No. of Input Strings per Tracker	1				1			1
Max. PV Input Current [A]	20A				14A/14A			22A
Max. Short-circuit Current [A]	30A				28A			30A
AC Output								
Rated AC Output Power [W]	2kw	3kw	3.3kw /3.4kw	4kw	4kw	5kw	6kw	
Max. AC Output Apparent Power [VA]	2200	3100	3200	3300	4400	5500	6600	
Max. AC Output Current [A]	10	13..5	14.5	15.5	18	21	26	28
Rated AC Voltage [V]	L / N / PE, 220 / 230 +/- 20%							
Grid Frequency [Hz]	50 / 60 Hz							
Adjustable Power Factor [cosφ]	0.8 leading ~ 0.8 lagging							
Output THDi (@Rated Output)	< 3%							
Efficiency								
Max. Efficiency	97.5%	97.6%			97.9%			
Euro Efficiency	96.9%	97.2%						
Protection								
DC Insulation Monitoring	Integrated							
Input Reverse Polarity Protection	Integrated							
Anti-island Protection	Integrated							
Residual Current Monitoring	Integrated							
AC Overcurrent Protection	Integrated							
AC Short-circuit Protection	Integrated							
DC Surge Protection	Integrated (Type ll)							
AC Surge Protection	Integrated (Type ll)							
AFCI Protection	Optional							
DC Switch	Optional							
General Data								
Dimensions (W * H * D) [mm]	265mm/310mm/148mm				330mm/312mm/188mm			370/319/106
Weight [kG]	8KG				11.5KG			7KG
Display	LED Display							
Communication	RS 485, WIFI							
Ambient Temperature Range [°C]	-25 ~ +60							
Relative Humidity	0 ~ 100%							
Operating Altitude [m]	≤ 2000							
Night Self-consumption [W]	< 1							
Topology	Transformerless							
Cooling	Natural							
Ingress Protection	IP65							
Noise [dB]	< 25							
Standard Warranty	8 Years							

Specification are Subject to Change Without Prior Notice |

Updated On 16-10-2024

Rev.: EUPL/Sales/SGI/01

Specification: EnerTron 3Ph GTI

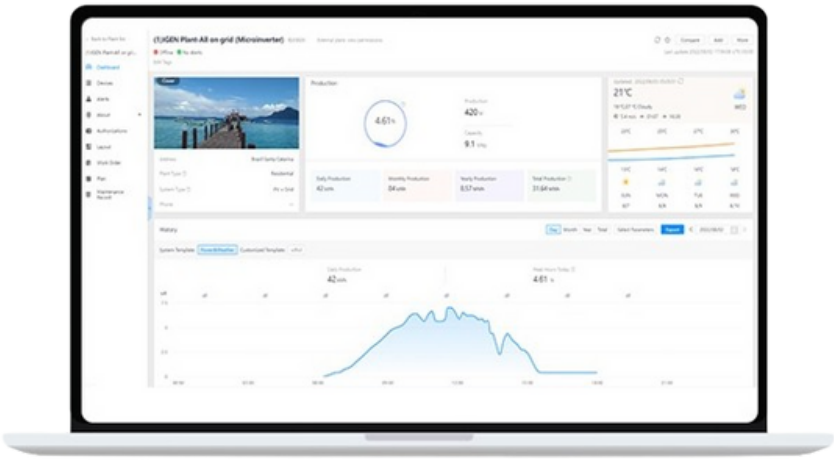
Technical Data	5KW	6KW	8KW	10KW	12KW	15KW	20KW	25KW
Input Data								
Max. DC input power	6000W	7000W	9000W	11000W	14000W	16000W	23000W	26000W
Max. DC input voltage	1100V							
Operation voltage range	200V - 1000V							
Number of independent MPPT	2							
Strings per MPPT	2					3	4	
MPPT max. Current	14A/14A					14A/28A	28A/28A	28A/28A
AC Output Data								
Rated output power	5000W	6000W	8000W	10000W	12000W	15000W	20000W	25000W
Rated output voltage	400V/320V-480V							
Rated output frequency	50Hz, 60Hz / ±5Hz							
Rated output current	7.2A	8.7A	11.6A	14.5A	17.5A	22A	29A	36A
Max. output current	8A	10A	13A	16A	19A	24A	32A	40A
Power factor	-0.8~+0.8(adjustable)							
THDi	<3% (Nominal Output)							
Grid system pattern	3P+N+PE							
Efficiency								
Max. efficiency	98.20%					98.50%		
Europe efficiency	98.00%					98.20%		
Protection								
Input DC switch	Yes							
Input over current protection	Yes							
DC reverse polarity protection	Yes							
Output over voltage protection	Yes							
Output over current protection	Yes							
Anti islanding protection	Yes							
AC surge protection	Yes							
DC surge protection	Yes							
Insulation impedance protection	Yes							
RCD detection	Yes							
General Data								
Dimensions(W/L/H) in mm	403/192/360					403/236/360		
Weight	15kg					18.5kg		20.5kg
Noise	<30dB							
Operation temperature range	-25℃~+60℃							
Heat dissipation mode	Natural cooling					Smart cooling		
IP Class	IP 65							
Maximum altitude	4000m							
Self-Consumption night	<1w							
Topology	Transformerless							
Features								
LCD display	Yes							
Communication interface	WIFI / RS485 (optional)							
Warranty	8 years							

Specification are Subject to Change Without Prior Notice |

Monitor and manage your smart energy

for a better world

EnerTech
Answering All Power Needs



EnerTech® Highly Reliable And Efficient Products are Backed by A Highly Responsive and Dependable Field and Factory Services

50+ Service Personnel Pan-India

Pan-India Spare Parts Operations

Wide Repair Network

Your business runs around the clock, and so does EnerTech. With 24x7 technical support coverage, including weekends and holidays, The Technical Support team at Enertech is dedicated to protecting your investments With factory trained engineers positioned throughout the India, rapid response times can significantly reduce downtime and loss of revenue.

Highly skilled Technical Support representatives are available to troubleshoot by phone and, If necessary, Can dispatch the expert Service engineer to your site.

Call For Technical Support
+91 9373679255

SERVICE

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Domestic and International Presence
7 x 24 x 365 Customer Service Support

Our Offering

Online UPS, Static Frequency Converter, Solar UPS, Industrial Battery Charger

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