

What a Solar Inverter aspires to be



Thea Energy specializes in renewable energy solutions, particularly solar technology.

We have a 30-year history in manufacturing reliable solar inverters and launching global brands like Kaco New Energy in India.

We are known for our Grid-Tied Solar Inverters tailored to Indian conditions and plan to expand into energy storage solutions, including hybrid inverters, Li-ion batteries, and EV chargers. We also contribute to India's Renewable Energy roadmap and operate a carbon-neutral production facility powered by solar energy.

SE-TH 100kW, 110kW, 125kW (Three Phase) For Large Scale Applications



SUPERIOR PERFORMANCE

- Maximum Efficiency of 98.6%
- Large string current, compatible with large PV modules
- 9 MPPT, fuse-free design technology



HIGH RELIABILITY

- IP66 protection level for outdoor installation
- Replaceable DC/AC Type II SPD



INTELLIGENT MAINTENANCE

- Remote configuration & upgrade
- Quick commissioning via mobile app
- String level current detection

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Branches: Mumbai | Bangalore | Bhopal | Chennai

SE-TH 100kW, 110kW, 125kW (Three Phase)			
Model	100.0TL3	110.0TL3	125.0TL3
Efficiency			
Max. Efficiency	98.5%	98.6%	98.8%
European Efficiency	98.0%	98.2%	98.2%
Input (PV)			
Max. Input Voltage	1100V		
Max. PV Configuration	150%		
Rated Input Voltage	620V		
Max. Input Current	3*40A + 5*32A	3*40A + 6*32A	
Max. Short Circuit Current	3*50A + 5*45A	3*50A + 6*45A	
Start /Min. Operating Voltage	250V/200V		
MPPT Operating Voltage Range	200V-1000V		
Max. Number of PV Strings	16(8*2)	18(9*2)	
No. of MPPTs	8	9	
Output (Grid)			
Rated AC Active Power	100,000W	110,000W	125,000W
Max. AC Apparent Power	111,000VA	123,000VA	125,000VA
Max. AC Output Current	3*160A	3*178A	3*181A
Rated AC Voltage	400V, 3P+N+PE		
AC Voltage Range①	187V-300V / 320V-520V (Adjustable)		
Rated Grid Frequency	50Hz / 60Hz		
Grid Frequency Range②	45Hz-55Hz / 55Hz-65Hz (Adjustable)		
THDI	<3%@Rated Power		
DC Current Injection	<0.5%@Rated Current		
Power Factor	>0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)		
Protection			
DC Switch	Support		
Anti-Islanding Protection	Support		
AC Overcurrent Protection	Support		
AC Short Circuit Protection	Support		
DC Reverse Protection	Support		
Surge Arrester	DC Type II / AC Type II		
Insulation Detection	Support		
PV String Monitoring	Support		
Leakage Current Protection	Support		
General			
Topology	Transformerless		
IP Rating	IP66		
Night Self Consumption	<10W		
Cooling	Fan cooling		
Operating Temperature Range	-25°C to 60°C		
Relative Humidity Range	0-100%		
Max. Operating Altitude	4000m		
Dimensions (W*H*D)	936mm*678mm*365mm		
Weight	91.5Kg	92Kg	
HMI & COM			
Display	Wireless & App + LED, LCD		
Communication	RS485, Optional: WiFi / GPRS / LAN		
Certification			
Safety	IEC 62109, IEC 61727, IEC 62116		
Grid Code	IEC 61683, IEC 60068, IEC 61000		
BIS (R-51002593)	IS 16221 (Part 2):2015/IEC 62109-2:2011, IS 16169:2019/IEC 62116:2014 & IS 17980:2022/IEC 62891:2020		
Remarks :			
① ② The range of output voltage and frequency may vary depending on different grid codes. Specifications are subject to change without advance notice.			

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