

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 are now expanding 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-TH02 2.0 kW - 6.6 kW (Single Phase) FOR SMALL SCALE GRID CONNECTED APPLICATIONS



SUPERIOR PERFORMANCE

- Maximum efficiency of 98.2% Maximum
- String Current of 20A, compatible with higher current modules.
- 150% PV configuration and 110% output overload



HIGH RELIABILITY

- IP65 waterproof and dustproof with inbuilt WiFi
- Compatible with a wide range of power grid voltage and high harmonic power grid environments



INTELLIGENT MAINTENANCE

- Remote configuration and upgrade
- Power export control supported

Thea Energy Pvt. Ltd

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Regional Office: A-49, Sector-5, Delhi NCR, Noida- 201301

Branches: Mumbai | Bangalore | Bhopal | Chennai



SE-TH02 2kW - 6.6kW (Single Phase)

Model	2.0TL1	3.0TL1	3.6TL1	4.0TL1	5.0TL1	6.0TL1	6.6TL1
Efficiency							
Max. Efficiency	97.8%				98.2%		
European Efficiency	97.0%				97.4%		
Input (PV)							
Max. Input Voltage	550V						
Max. PV Configuration	150%						
Rated Input Voltage	360V						
Max. Input Current	20A				20A+20A		
Max. Short Circuit Current	30A				30A+30A		
Start Input Voltage	50V						
MPPT Operating Voltage Range	40V-540V						
Max. Number of PV Strings	1				2(1/1)		
No. of MPPTs	1				2		
Output (Grid)							
Rated AC Active Power	2,000W	3,000W	3,600W	4,000W	5,000W	6,000W	6,600W
Max. AC Apparent Power	2,200VA	3,300VA	3,960VA	4,400VA	5,500VA	6,600VA	7,260VA
Max. AC Output Current	9.6A	14.4A	17.3A	19.2A	24A	28.7A	31.6A
Rated AC Voltage	230V, L+N+PE						
AC Voltage Range①	160V-300V (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 Connection	Support						
Surge Arrester	DC Type II / AC Type II						
Insulation Detection	Support						
Leakage Current Protection	Support						
String Intelligent Monitoring	Support						
General							
Topology	Transformerless						
IP Rating	IP66						
Night Self Consumption	<1W						
Cooling	Natural cooling						
Operating Temperature Range	-25°C to 60°C						
Relative Humidity Range	0-100%						
Max. Operating Altitude	4000m						
Dimensions (W*H*D)	270mm*255mm*135mm				297mm*282mm*145mm		
Weight	4.4Kg				7.2Kg		
HMI & COM							
Display	Bluetooth & App+LED+LCD						
Communication Interface	Optional: RS485 / WiFi / 4G / LAN						
Certification							
Safety	IEC 62109-1&2, IEC61727, IEC62116						
Grid Code	IEC 61727, IEC 62116, IEC 61683, IEC 60068						
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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