EmPowering Tomorrow with New Energy



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-TH01 5kW - 30kW (Three Phase)

For Medium Scale Applications



SUPERIOR PERFORMANCE

- Maximum efficiency of 98.4%
- Maximum String Current of 15A, compatible with 600W+ modules
- 150% PV configuration and 110% output overload

HIGH RELIABILITY

- Die cast aluminium case IP66 waterproof and dustproof
- Integrated DC / AC Type II SPD, AFCI detection
- Compatible with a wide range of voltage and high harmonic power gride environments

INTELLIGENT MAINTENANCE

- Quick commissioning via mobile app
- Remote configuration and upgrade
- Power export control supported

Thea Energy Pvt. Ltd

Registered Office:

502 Kamalalaya Centre, 156 A Lenin Sarani, Kolkata- 700013

Works: 24 Canal South Road, Beleghata, Kolkata- 700015
Corporate Office: Y-17, Block-EP, Salt Lake, Kolkata- 700091
Regional Office: A-49, Sector-5, Delhi NCR, Noida- 201301

Branches: Mumbai | Bangalore | Bhopal | Chennai

SE-TH01 5kW - 30kW (Three Phase)

Model	5.0TL3	6.0TL3	8.0TL3	10.0TL3	15.0TL3	P10.0TL3	P15.0TL3	20.0TL3	25.0TL3	30.0TL3
Efficiency										
Max. Efficiency	98.2%				98.3%	98.4%				
European Efficiency	97.8%						98.0%			
Input (PV)										
Max. Input Voltage	1100V									
Max. PV Configuration	150%									
Rated Input Voltage	620V									
Max. Input Current	15A+15A				15A+30A		30A+30A			40A+30A
Max. Short Circuit Current	20A+20A				20A+40A		40A+40A			50A+37.5A
Start Input Voltage	180V									
MPPT Operating Voltage Range	160V-1000V									
Max. Number of PV Strings	2(1/1)				3(1/2)		4(2/2)			
No. of MPPTs	2									
Output (Grid)										
Rated AC Active Power	5,000W	6,000W	8,000W	10,000W	15,000W	10,000W	15,000W	20,000W	25,000W	30,000W
Max. AC Apparent Power	5,500VA	6,600VA	8,800VA	11,200VA	16,700VA	11,000VA	16,500VA	22,000VA	27,500VA	33,000VA
Max. AC Output Current	3*8.4A	3*10.1A	3*13.4A	3*17A	3*25.3A	3*16.8A	3*25.3A	3*33.7A	3*39.8A	3*50.2A
Rated AC Voltage	380V / 400V / 415V, 3P+N+PE									
AC Voltage Range①	260V-510V (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	AC Type II / DC Type II									
Insulation Detection	Support									
Leakage Current Protection	Support									
General										
Topology	Transformerless									
IP Rating	IP66									
Night Self Consumption	<1W									
Cooling	Natural cooling						Fan cooling			
Operating Temperature Range	-25°C to 60°C									
Relative Humidity Range	0-100%									
Max. Operating Altitude	4000m									
Dimensions (W*H*D)	398mm*460mm*190mm									
Weight	16.8Kg				18.7Kg		20.0Kg			
HMI & COM										
Display	Wireless & App + LED, LCD									
Communication	RS485, Optional: WiFi / GPRS / 4G / LAN									
Certification										
Safety	IEC62109, IEC61727, IEC62116									
Grid Code	IEC61683, IEC60068, IEC61000									
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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