

TS250KTL-HV
1500V String Inverter



Grid Friendly

- Specific harmonic control technology, effectively reducing THDI
- Impedance adaptive technology, supporting weak grid network SCR-1.2
- Night SVG
- Fast active & reactive power response, supporting power dispatch

Safety and Reliability

- IP66 & C5, robust environment adaptability
- Intelligent heat exchange and dissipation design

Efficient Power Generation

- Maximum efficiency 99%, European efficiency 98.7%
- 2 strings connected into 1 MPPT, ensuring maximum power generation efficiency
- MPPT current 30A/40A, match 182/210 bifacial modules perfectly

Intelligent Maintenance

- Intelligent and high precision IV curve diagnosis
- Anti-PID and PID repair function, protecting the high efficiency of PV panels
- Intelligent mounting system control technology, improving the power generation

Technical Parameters

Model	TS250KTL-HV
Efficiency	
Max. Efficiency	99%
European Efficiency	98.7%
Input(AC)	
Max. Input Voltage	1500V
Max. Input Current per MPPT	30A/40A
Max. Short Circuit Current per MPPT	50A
MPPT Voltage Range	500V~1500V
Number of Inputs	24/18
Number of MPPT Trackers	12/9
Output(AC)	
Output Power	250kW@30°C/228kW@40°C/208kW@50°C
Max. Output Apparent Power	250kVA
Max. Output Active Power (cosφ=1)	250kW
Nominal Output Voltage	800V/3V+PE
Nominal Output Frequency	50Hz/60Hz
Nominal Output Current	165A
Max. Output Current	180A
Adjustable Power Factor Range	0.8(leading)~0.8(lagging)
Max. Harmonic Content	<3%In
Protection	
Input DC Switch	Support
Anti-islanding Protection	Support
AC Overcurrent Protection	Support
DC Reverse-Polarity Protection	Support
String Fault Detection	Support
DC Surge Protection	Type II
AC Surge Protection	Type II
DC Insulation Impedance Detection	Support
Residual Current Detection Display	Support
Display and Communication	
Display	LED WiFi+APP
RS485 PLC	Support
WiFi	Support
General Parameters	
Dimensions (W×H×D)	1100mm×700mm×360mm
Weight	110kg
Operating Temperature Range	-25°C~60°C
Cooling Method	Smart Forced Air Cooling
Max. Operating Altitude	5000m
Relative Humidity Range	0%~100%
DC Connector	MC4 EVO2
AC Connector	OT/DI Terminal
Protection Degree	IP66
Topology	Transformerless
Standard Compliance	
Compliance	IEC 62109-1/-2, EN 50530, IEC 62116, IEC 62910, IEC 60068, IEC 61683, CEA2019