

TS360KTL-HV-C1

1500V String Inverter

TBEA



Grid Friendly

- Specific harmonic control technology, effectively reducing THDi
- Impedance adaptive technology, supporting weak grid network SCR~1.0
- Night SVG
- Fast active & reactive power response <30ms, supporting power dispatch

Efficient Power Generation

- Maximum efficiency 99.02%, European efficiency 98.8%
- Optimized MPPT algorithm, ensuring maximum power generation efficiency
- Match 182 / 210 bifacial modules perfectly
- Higher DC / AC ratio, achieving optimal DC overload ratio to reduce LCOE

Safety and Reliability

- IP66 & C5, robust environment adaptability
- Intelligent cooling design
- Intelligent string disconnect switch, high safety

Intelligent Maintenance

- Intelligent and high precision IV curve diagnosis
- Anti-PID and PID repair function, protecting PV module for degradation

Technical Specification

Model	TS360KTL-HV-C1
Efficiency	
Max. efficiency	99.02%
European efficiency	98.8%
Input (DC)	
Max. input voltage	1500V
Max. input current per MPPT	65A
Max. short-circuit current per MPPT	115A
MPPT voltage range	500V ~ 1500V (940V ~ 1300V full load)
Number of inputs	24 / 30
Number of MPP trackers	6
Output (AC)	
Output power	363kW @30°C / 330kW @40°C / 300kW @50°C
Max. output apparent power	363kVA
Max. output active power (cosΦ=1)	363kW
Nominal output voltage	800V / 3W+PE
Nominal output frequency	50Hz / 60Hz
Max. output current	262A
Adjustable power factor range	0.8 (leading) ~ 0.8 (lagging)
Max. total harmonic distortion (THDI)	<3% (at nominal power)
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
Insulation monitoring	Support
Residual current monitoring unit	Support
Display and Communication	
Display	LED, WLAN+APP
Communication	RS485 PLC
General Data	
Dimensions (W×H×D)	1120×820×365mm
Weight	110kg
Operating temperature range	-25°C ~ 60°C
Cooling method	Smart forced air cooling
Max. operating altitude	5000m (>4000m derating)
Relative humidity range	0% ~ 100%
DC connector	MC4 Evo2 (Max. 6mm ²)
AC connector	Support OT / DT Terminal (Max. 400mm ²)
Degree of protection	IP66
Topology	Transformerless
Standard Compliance	
Compliance	CE, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 62910, IEC 60068, IEC 61683, CEA2019, NTS2.1, P.O.12.3, EN 50549-1/-2, ONS, SEC