

TBEA



1500V TC2500KFT



Efficient power generation

One MPPT for two inputs, I-type three-level power topology,
Inverter maximum efficiency greater than 99%, European efficiency greater than 98.7%



Investment saving

ITS standard 20-foot container, Saving upfront investment, Reducing transportation and construction costs



Highly integrated

Highly integrating "inverter", "booster", "RMU", "power distribution", "communication" and other functions,
Unifying all communication interfaces

Model	TC2500KFT
Input (DC)	
Max. DC Voltage	1500V
Min. DC/Starting Voltage	900V
Full-load Voltage Range	900V ~ 1300V
MPPT Number	2
Max. Number of Inputs	16*400A/20*250A
Max. DC Current	3118A
Output (AC)	
Rated AC Power	2500kW
Max. AC Power	2750kW
Rated Grid Voltage	10kV~35kV
Rated Grid Frequency	50Hz/60Hz
Allowed Grid Frequency Range	45Hz ~ 55Hz/55Hz~65Hz (custom settings)
Max. THD	< 3% (at rated power)
DC Current Component	< 0.5% (rated output current)
Power Factor Range	0.8 (leading) ~ 0.8 (lagging) , continuous adjustable
Inverter Efficiency	
Max. Efficiency	99%
European Weighted Efficiency	98.7%
Protection Function	
DC Overvoltage Protection	Yes
DC Short Circuit Protection	Yes
Insulation Detection	Yes
Grid Detection	Yes
Grounding Fault Detection	Yes
Overheating Protection	Yes
Other Functions	
PID Protection and Repair	Optional
SVG Function	Optional
Soft open, Shutdown	Yes
Conventional Parameters	
Isolation Method	Oil Immersed Transformer
Dimensions (W*H*D)	2438mm*2896mm*6058mm
Weight	15000kg
IP Protection	IP54
Cooling Method	Forced Air Cooling (Inverter) , other equipment cools naturally
Ambient Temperature Range	-25°C~60°C (above 50°C derating)
Ambient Humidity Range	0% ~ 95% (no condensation)
Max. Operating Altitude	2000m (Standard) /> 2000m (Optional)
Communication Interfaces	RS485/Ethernet
Product Certification	
TUV	

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