

TBEA



1500V TC6250KFT / TC6800KFT



Efficient power generation

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



Environmental adaptation

Large array, Saving upfront investment,
Copper bar connection reducing the difficulty and cost of construction on site



Continuous power generation

DC side maximum 1.4 times over-matching access,
AC side 50 °C 1.1 times long-term overload operation without derating, To ensure power generation

Model	TC6250KFT	TC6800KFT
Input (DC)		
Max. DC Voltage	1500V	
Min. DC/Starting Voltage	900V	
Full-load Voltage Range	900V ~ 1300V	
MPPT Number	4	
Max. Number of Inputs	48*400A/56*250A	
Max. DC Current	7795A	
Output (AC)		
Rated AC Power	6250kW	6800kW
Max. AC Power	6875kW at 45°C/6250kW at 50°C	6875kW at 45°C
Rated Grid Voltage	10kV ~ 35kV	
Rated Grid Frequency	50Hz/60Hz	
Allowed Grid Frequency Range	45Hz ~ 55Hz/55Hz ~ 65Hz	
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)	2438*2896*6058mm (Except Inverter)	2438*2896*2991mm (Inverter)
Weight	20000kg (Except Inverter)	4500kg/unit (Inverter)
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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