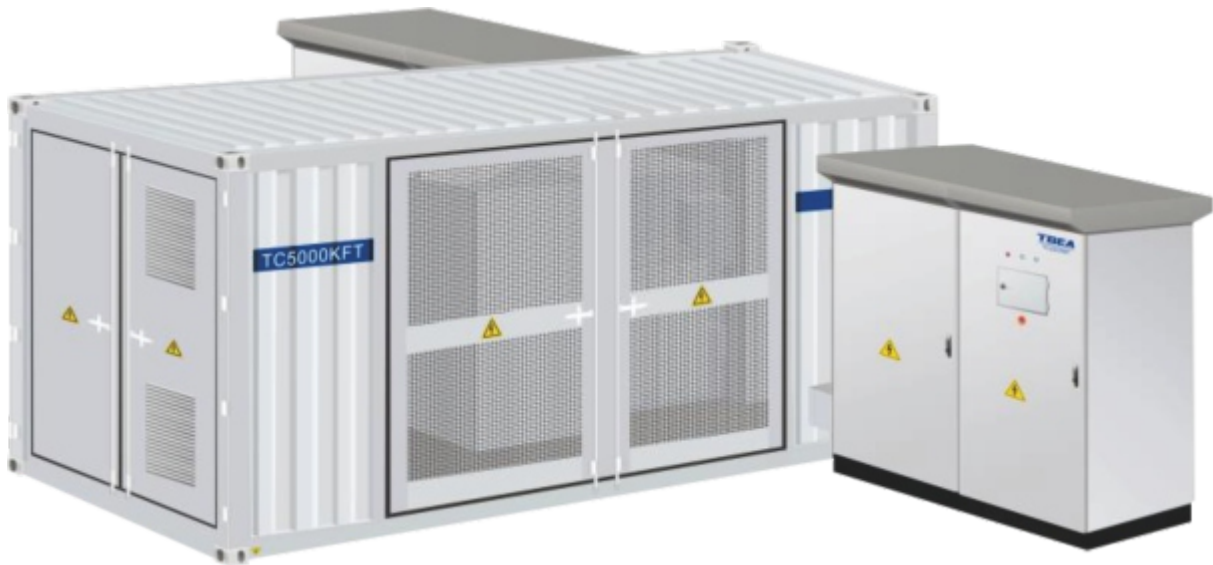


TBEA



1500V TC5000KFT



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%



Investment saving

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 TC5000KFT

Input (DC)

Max. DC Voltage	1500V
Min. DC/Starting Voltage	900V
Full-load Voltage Range	900V ~ 1300V
MPPT Number	4
Max. Number of Inputs	32*400A/40*250A
Max. DC Current	6236A

Output (AC)

Rated AC Power	5000kW
Max. AC Power	5500kW
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)	2438*2896*6058mm (Except Inverter) 2091*2294*1680mm (Inverter)
Weight	18000kg (Except Inverter) 3000kg/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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