

TBEA



1500V TC2500KF / TC3750KF / TC5000KF



Efficient power generation

I-type three-level power topology, Inverter maximum efficiency greater than 99%,
European efficiency greater than 98.7%



Environmental adaptation

Outdoor inverter, Whole machine IP54, Key components IP65, Strong environmental adaptability



Flexible plan

Parallel modularized design, Convenient for selection of different power arrays,
Compatible with multiple power distribution schemes on DC side and AC side

Model	TC2500KF	TC3750KF	TC5000KF
Input (DC)			
Max. DC Voltage	1500V		
Max. DC Current per MPPT	3118A	4677A	6236A
MPPT Voltage Range	900V ~ 1300V		
Independent MPPT Number	2	3	4
Max. Number of Inputs	16*400A/20*250A	24*400A/30*250A	32*400A/40*250A
Output (AC)			
Rated AC Power	2500kW	3750kW	5000kW
Max. AC Power	2750kVA@40°C	4125kVA@40°C	5500kVA@40°C
Rated AC Current	2291A	3437A	4582A
Max. AC Current	2520A	3780A	5040A
Rated Output Voltage	630V		
AC Frequency Range	50Hz		
Power Factor Range	0.8 (leading) ~ 0.8 (lagging) , adjustable		
Max. THD	<3%		
Inverter Efficiency			
Max. Efficiency	99%		
European Weighted Efficiency	98.7%		
Environment Parameters			
Ambient Temperature	-25°C ~ 60°C (> 50°C derating)		
Ambient Humidity	5% ~ 95% (no condensation)		
Max. Operating Altitude @Full Load	3000m		
Cooling Method	Smart forced air cooling		
IP Protection	IP54/IP65 (Electrics)		
Communication			
Communication Interfaces	RS485/Ethernet		
Protection Function			
Anti-Islanding Protection	Yes		
Low-Voltage Ride-Through (LVRT)	Yes		
Dc Input Reverse Polarity Protection	Yes		
Leakage Current Protection	Yes		
Grid Voltage Frequency Protection	Yes		
Lightning Protection	Yes		
Insulation Resistance Detection	Yes		
Mechanical Data			
Dimensions (W*H*D)	2091mm*2294mm*1680mm	3136mm*2294mm*1678mm	4182mm*2294mm*1680mm
Weight	3000kg	4500kg	6000kg
Product Certification			
Get zero/low voltage ride through, high voltage rid through, TUV			TUV

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