

TC3125KF / TC3400KF 1500V Central Inverter



Grid Friendly

- Specific harmonic control technology, effectively reducing THDI
- Impedance adaptive technology, supporting weak grid network SCR-1.2
- Night SVG
- Fast active & reactive power response, supporting power dispatch

Efficient Power Generation

- Maximum efficiency 99%, European efficiency 98.7%
- Optimized MPPT algorithm, ensuring maximum power generation efficiency
- 16-20 inputs optional, match 182/210 bifacial modules perfectly

Safety and Reliability

- IP65 & C5, robust environment adaptability
- Dual air duct heat dissipation & built-in heat exchanger

Convenient Maintenance

- Modular design of power modules, easy for maintenance
- Fan, capacitor life prediction, transition from passive to active maintenance

Technical Specification

TBEA

Model	TC3125KF	TC3400KF
Efficiency		
Max. efficiency	> 99%	
European efficiency	> 98.7%	
Input (DC)		
Max. input voltage	1500V	
Min. input voltage / startup voltage	900V	
MPPT voltage range at nominal power	900V ~ 1300V	
Number of MPPT trackers	2	
Number of inputs	16 / 20	
Max. input current	4075A	
Output (AC)		
Nominal output power	3125kW	3437kW
Max. output apparent power	3594kVA	
Max. output active power (cosφ=1)	3594kW	
Nominal output voltage	630V / 3W + PE	
Nominal output frequency	50Hz / 60Hz	
Nominal output current	2864A	3150A
Max. output current	3437A	
Adjustable power factor range	0.8 (leading) ~ 0.8 (lagging)	
Max. harmonic content	<3%in (at nominal power)	
DC current injection	≤3.5%in	
Protection		
DC input protection	Disconnecting switch + fuse	
AC output protection	Circuit breaker	
DC / AC surge protection	Type II or Type I + II	
DC short circuit protection	Support	
Output overcurrent protection	Support	
Grid monitoring	Support	
Ground fault monitoring	Support	
Anti-island protection	Support	
Insulation monitoring	Support	
Overheat protection	Support	
Other Functions		
Anti-PID function	Optional	
SVG function	Optional	
General Parameters		
Dimensions (W × H × D)	2263mm × 2325mm × 1188mm	
Weight	2700kg	
Protection degree	IP65	
Operating temperature range	-35°C ~ 60°C (>50°C derating)	-35°C ~ 60°C (>45°C derating)
Cooling method	Smart forced air cooling	
Max. operating altitude	3000m, customizable	
Relative humidity range	0% ~ 100%	
Display	Touch screen	
Communication	RS485 / Ethernet	
Night standby loss	<200W	
Topology	Transformerless	
Standard Compliance		
Compliance	IEC 62109-1/-2, EN 50530, IEC 62116, IEC 62910, IEC 60068, IEC 61983, CEA2019	

The technical parameters are for reference only, and the actual products shall prevail.