

## TC4400KF / TC4400KF-B1 1500V Central Inverter



### Grid Friendly

- Specific harmonic control technology, effectively reducing THDI
- Impedance adaptive technology, supporting weak grid network SCR~1.2
- Night SVG (optional), better grid supporting
- 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
- 18 / 21 / 24 inputs optional, match 182 / 210 bifacial modules perfectly
- Anti-PID+repair function protects the health of PV modules

### Safety and Reliability

- IP55 / IP65 & C4 (C5 optional), robust environment adaptability
- Dual air duct heat dissipation
- Intelligent fan speed control and fault detection for system reliability

### Convenient Maintenance

- Modular design, flexible configuration of PV array, easy for O&M
- Integrated zone monitoring function to realize online fault analysis and diagnosis

## Technical Specification

TBEA

Model	TC4400KF	TC4400KF-B1
		<b>Efficiency</b>
Max. efficiency		> 99%
European efficiency		> 98.7%
		<b>Input (DC)</b>
Max. input voltage		1500V
Min. input voltage / start-up voltage	900V / 905V	932V / 950V
MPPT voltage range at nominal power	900V ~ 1300V	936V ~ 1300V
Number of MPP trackers		3
Number of inputs		18 (21/24 optional)
Max. input current	3 × 1913A	3 × 1915A
		<b>Output (AC)</b>
Nominal output power	4400kW @40°C	4400kW @50°C
Max. output apparent power	5060kVA @20°C	5280kVA @20°C
Max. output active power (cosφ=1)	5060kW	5280kW
Nominal output voltage	630V / 3W+PE	660V / 3W+PE
Nominal output frequency		50Hz / 60Hz
Nominal output current	3 × 1344A	3 × 1283A
Max. output current	3 × 1546A	3 × 1540A
Adjustable power factor range		0.8 (leading) ~ 0.8 (lagging)
Max. total harmonic distortion		<3% (at nominal power)
DC current injection		<0.5%In
		<b>Protection</b>
DC input protection		Disconnecting switch + Fuse
AC output protection		Circuit breaker
DC / AC surge protection		Type II (Type I + II optional)
DC short circuit protection		Support
Output overcurrent protection		Support
Grid monitoring		Support
Ground fault monitoring		Support
Anti-islanding protection		Support
Insulation monitoring		Support
Overheat protection		Support
		<b>Other Functions</b>
Anti-PID function		Optional
SVG function		Optional
		<b>General Data</b>
Dimensions (W × H × D)		2714mm × 2387mm × 1955mm
Weight		3000kg
Degree of protection		IP55 / IP65
Operating temperature Range	-35°C~ 60°C (>40°C derating)	-35°C~ 60°C (>50°C derating)
Cooling method		Smart forced air cooling
Max. operating altitude		5000m (>4000m derating)
Relative humidity range		0% ~ 100%
Display		WLAN+WebHMI / APP
Communication		RS485 / Ethernet
Night standby loss		<200W
Topology		Transformerless
		<b>Standard Compliance</b>
Compliance		CE, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 62010, IEC 60068, IEC 61683, CEA2019

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