TBEA特变电工

Excellent Green and Smart Energy Service Provider

TC500KH

- Higher power density can be achieved because of smaller dimension and the power generation of PV system can be promoted.
- No DC distribution cabinet required, can be compatible with the defense of the diode.
- Modularized design and front-door maintenance design adopted, maintenance cost of the power plant effectively reduced.
- Passed CQC new energy standard, TUV, BDEW, MEA, PEA Certification.

特变电工西安电气科技有限公司
TBEA XI'AN ELECTRIC TECHNOLOGY CO., LTD.

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Company Website

Wechat Platform

TBEA 特变电工
Equip China Powering the world

Model	TC500KH
Input (DC)	
Max. DC Power	618kW
Max. DC Voltage	1000V
Max. input current	1344A
MPPT Voltage Range	460-950V
Number of DC inputs	8
Output (AC)	
Rated AC Power	500kVA
Max.AC Power	600kVA
AC nominal voltage	315Vac
AC voltage range	270~350Vac
Rated output current	916A
Max.output current	1099A
Ac frequency	50/60Hz
Ac frequency range	48~52Hz/58~62Hz
System paraneters	
Max.efficiency	99%
Chinese weighted efficiency	98.42%
Adjustable power factor	0.9 (leading) ~ 0.9 (lagging), adjustable
Max.THD	< 3%
DC current injection	< 0.5%
Max.self-consumption(night)	< 50W
Max.self-consumption(operation)	< 1000W
Display and communication	
Display	LCD
Communication interfaces	RS485,Ethernet（optional）,GPRS（optional）
Communication protocol	Modbus
Protection function	
Over-voltage/under-voltage protection	Yes
Over-frequency/under-frequency protection	Yes
ZVRT	Yes
Stand-alone grid detection	Yes
Over-current protection	Yes
Anti-discharge protection	Yes
Overload protection	Yes
Lightiong protection	Yes
Safety requirements	
Insulation resistance	1MΩ
Insulation voltage	3500Vdc,min
Overvoltage class	PV(Ⅱ) AC(Ⅲ)
Protection class	I
Degree of protection	IP20
Mechanical data	
Dimensions(W/H/D)	1200mm×2150mm×700mm
Weight	1000kg
Cooling concept	Forced air cooling
Environmental characteristics	
Operating temperature range	-25~60℃（>50℃ derating）
Max.permissible value for relative humidity	5~95%（non-condensing）
Max.operating altitude	5000m, without derating ≤3000m
Production certifications	
CQC，TUV，BDEW，MEA，PEA	

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