

TC8800KT-EL MV Inverter Transformer Turnkey Station



Product Introduction

The product integrate central inverters (4400kW), transformer, RMU, and other auxiliaries to a 20-foot container, convert and transform LV DC power generated by photovoltaic modules to MV AC power and inject to the grid system, thus provide an integrated solution to solar station.

Advantages

Efficient and Economical

- Match 182/210 photovoltaic module, DC 36/42/48 inputs, support 1.8 DC/AC ratio
- Max. efficiency >99%, European efficiency >98.7%
- High capacity, reduce the quantity of MV equipment, save the investment of the whole station

Integrated and Convenient

- All parts are prefabricated and tested, and easy transportation and installation
- Modular inverter design, easy for O&M replacement and maintenance

Stable and Reliable

- IP55 (IP65 optional) protection, C4 (C5 optional) anti-corrosion, adaptable to harsh environments
- Scientific thermal design, and effective cooling to improve performance

Supportive to Grid

- Comply with standard IEC61727, IEC62109-1/2, IEC62116, IEC62271-200/202, IEC60076, IEC61439
- Low/high voltage ride through (L/HVRT)
- Active & reactive power and power factor control

Technical Specification

TBEA

Model	TC8800KT-EL	
	Inverter DC input	
Max. input voltage	1500V	
Min. input voltage	900V	938V
MPP voltage range	900V ~ 1500V	938V ~ 1500V
Number of MPP input	6	
Number of DC input	36 / 42 / 48	
Max. input current	6×1913A	6×1915A
	Inverter AC output	
Nominal output power	8800kW @40°C	8800kW @50°C
Max. output apparent power	10120kVA @20°C	10560kVA @20°C
Nominal output voltage	630V	660V
Nominal output frequency	50Hz / 60Hz	
Max. total harmonic distortion	< 3%In	
DC current injection	< 0.5%In	
Power factor at rated power	> 0.99	
Power factor range	0.8 (leading) ~ 0.8 (lagging), continuously adjustable	
Inverter protection	IP55 / IP65 (optional)	
	Efficiency	
Max. efficiency	> 99.0%	
European efficiency	> 98.7%	
	Transformer	
Type	Oil-immersed, fully sealed, Dy11y11	
Nominal voltage	20kV ~ 35kV / 0.63 ~ 0.63kV	20kV ~ 35kV / 0.66 ~ 0.66kV
Loss	Tier1 / Tier2 (optional)	
Short circuit impedance	9.5% (deviation ±10%)	
	General	
Dimension (W × H × D)	12192mm × 2438mm × 2896mm, standard 40-foot container	
Protection	IP54	
Temperature range	-35°C ~ 60°C (> 40°C derating)	-35°C ~ 60°C (> 50°C derating)
Relative humidity range	0% ~ 100% (no condensing)	
Max. operating altitude	1500m / > 1500m (optional)	
Communication interface	RS485 / Ethernet	
Communication protocol	Modbus-RTU / Modbus-TCP / IEC104	
Auxiliary transformer	Dry, 3 phase, Dyn11, level H	
UPS	5kVA / 0.63kV / 0.4kV	1kVA, 30min 5kVA / 0.66kV / 0.4kV
	Standard Compliance	
Compliance	IEC61727, IEC62109-1/2, IEC62116, IEC62271-200/202, IEC60076, IEC61439	

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