

TS3000 / 6000 / 9000KT-EL MV Transformer Station



Brief Introduction

The product integrate LV panel, transformer, RMU and other auxiliaries to a 20-foot container, convert LV AC power to MV AC power and inject to grid system, thus provide an integrated solution to solar stations.

Advantages

Integrated and Convenient

- Prefabricated and pre-tested, simple installation onsite without internal cabling
- Standard container design for easy transportation

Efficient and Smart

- Low power consumption, Tier 1/2 PEI efficiency
- LV panel, transformer and RMU real-time monitored, LV panel and RMU remote controlled

Stable and Reliable

- IP54 protection for LV and MV room, IP68 for transformer body
- C4 anti-corrosion, adaptable to harsh environments

Grid Support

- Comply with standard IEC60076, IEC62271-200/202, IEC61439, EN50588-1
- MV voltage up to 35kV

Technical Specification

TBEA

Model	TS3000KT-EL	TS6000KT-EL	TS9000KT-EL
	Input		
Available inverters	TS3000KT-LV-HV-C1, TS3000KT-LV-HV-C1, TS3000KT-LV-HV-C1		
Max. LV inputs	10	20	28
AC power	3630kVA@30°C, 3300kVA@40°C 3000kVA@50°C	7260kVA@30°C, 6600kVA@40°C 6000kVA@50°C	10164kVA@30°C, 9240kVA@40°C 8400kVA@50°C
Rated input voltage	800V		
LV switches	MCCB (400A / 800Vac / 3P, 10pcs)	MCCB (400A / 800Vac / 3P, 20pcs)	MCCB (400A / 800Vac / 3P, 28pcs)
	ACB (3200A / 800Vac / 3P, 1pc)	ACB (3200A / 800Vac / 3P, 2pcs)	ACB (3200A / 800Vac / 3P, 2pcs)
	Output		
Rated output voltage	10kV ~ 35kV		
Rated frequency	50Hz / 60Hz		
Transformer type	Oil-immersed, fully sealed, Dy11	Oil-immersed, fully sealed, Dy11y11	
Transformer tapings	±2 × 2.5%		
Transformer oil type	Mineral oil (PCB free)		
Transformer cooling type	ONAN		
Transformer efficiency	Tier1 (standard) / Tier2 (optional)		
RMU type	SF6 gas insulated		
Auxiliary transformer	Dry type, 5kVA, 800V / 400V, Dyn11, level H		
UPS	1kVA, 30min		
	Protection		
Transformer monitoring and protection	Oil level, temperature and pressure		
Rated short-circuit breaking current	20kA / 3s		
MV relay protection	50 / 51, 50N / 51N		
LV surge protection	Type I-II		
Protection degree	IP54 for LV / MV room		
	IP68 for transformer body		
Anti-corrosion degree	C4		
	General		
Dimension	6058mm × 2896mm × 2438mm, standard 20-foot container		
Weight	<18T	<24T	<28T
Temperature range	-25°C ~ 60°C		
Relative humidity	0% ~ 95%		
Max. Operating altitude	1000m (standard) / > 1000m (optional)		
Measuring and control device	CEM8000 or similar		
Communication interface	RS485		
Communication protocol	Modbus-RTU / Modbus-TCP / IEC104		
Color	RAL7035		
	Standard Compliance		
Compliance	IEC60076, IEC 62271-200/202, IEC61439, EN50588-1		

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