

TS9000KT-EL-3

MV Transformer Station

TBEA



Brief Introduction

The product integrates 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 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 control

Safe and Reliable

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

Grid Support.

- Comply with standard IEC60076, IEC62271-200/202, IEC61439, EN50588-1
- MV voltage up to 36kV

Datasheet

Model	TS9000KT-EL-3
Input	
Available inverters	TS330KTL-HV-C1
Max. LV inputs	28
AC power	9240kVA @40°C, 10164kVA @30°C
Rated input voltage	800V
LV switches	MCCB (400A / 800Vac / 3P, 28 pcs)
	ACB (3200A / 800Vac / 3P, 2 pc)
Output	
Rated output voltage	10kV ~ 35kV
Rated frequency	50Hz / 60Hz
Transformer type	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
RMU cable incoming/outgoing unit	Direct cable unit or cable load break switch unit
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	<27T
Temperature range	-25°C ~ 60°C
Relative humidity	0% ~ 95%
Max. Operating altitude	1000m (standard) / >1000m (optional)
Measuring and control device	CEM9000 or similar
Communication interface	RS485, PLC
Communication protocol	Modbus-RTU / Modbus-TCP / IEC104
Color	RAL7035
Standard Compliance	
Compliance	IEC60076, IEC 62271-200/202, IEC61439, EN 50588-1