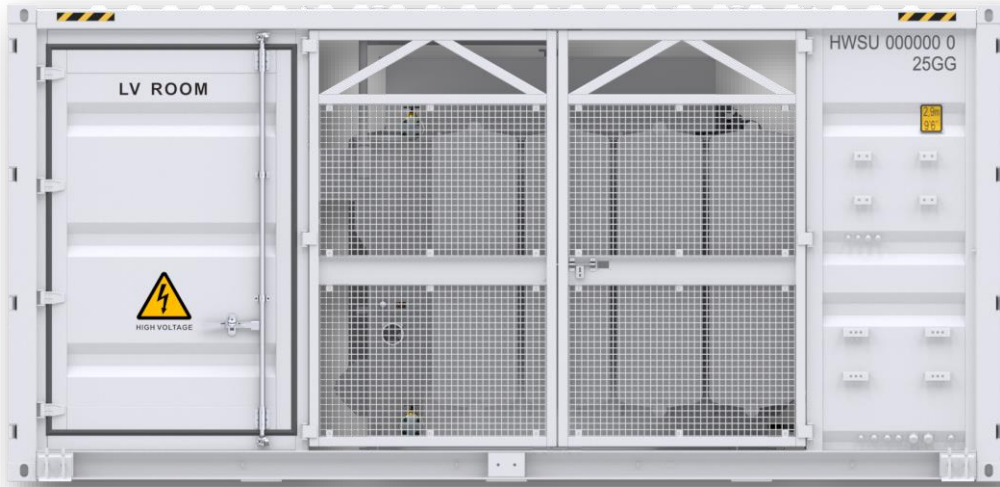


# STS-3000K-H1

## Smart Transformer Station



### Simple

Prefabricated and Pre-tested, No Internal Cabling Needed Onsite  
Compact 20' HC Container Design for Easy Transportation



### Efficient

High Efficiency Transformer for Higher Yields  
Lower Self-consumption for Higher Yields



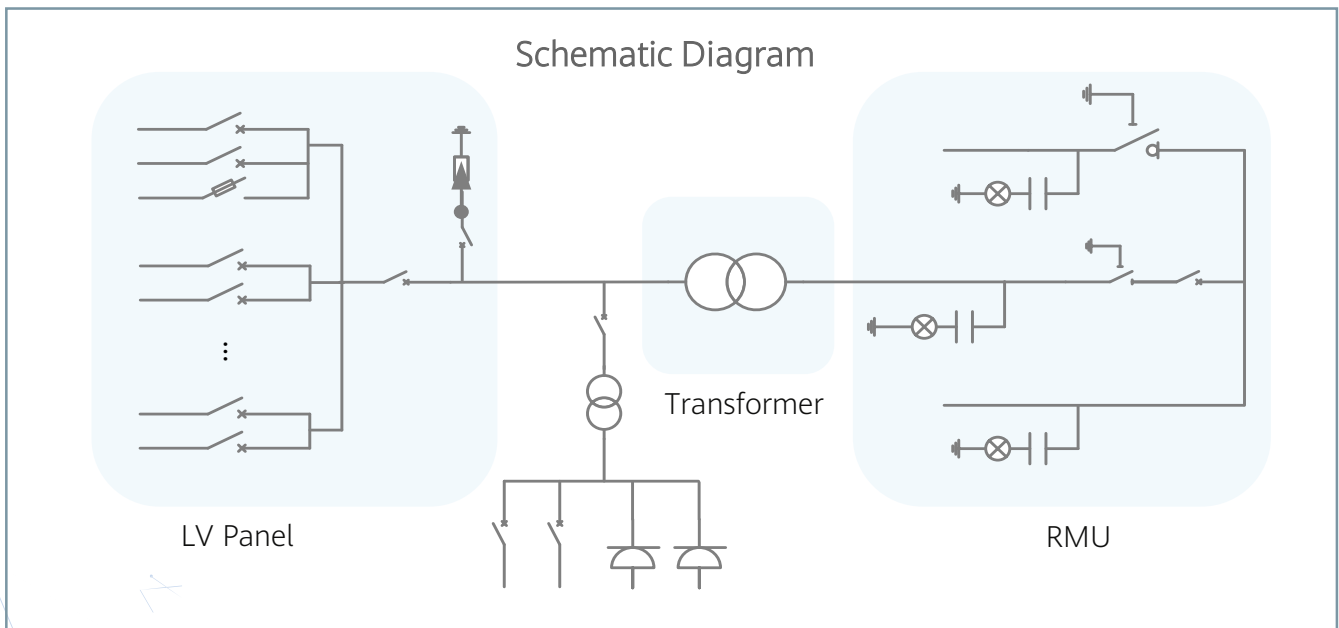
### Smart

Real-time Monitoring of Transformer, LV Panel and RMU  
High Precision Sensor of LV Electricity Parameters  
Remote Control of ACB and MV Circuit Breaker



### Reliable

Robust Design against Harsh Environments  
Optimal Cooling Design for High Availability and Easy O&M  
Comprehensive Tests from Components, Device to Solution



# STS-3000K-H1

## Technical Specifications

Input		
Available Inverters / PCS	SUN2000-200KTL / SUN2000-215KTL / SUN2000-185KTL / LUNA2000-200KTL	
Maximum LV AC Inputs	17	
AC Power	3,400 kVA @40°C <sup>1</sup>	
Rated Input Voltage	800 V	
LV Main Switches	ACB (2900 A / 800 V / 3P, 1 pcs), MCCB (250 A / 800 V / 3P, 17 pcs)	
Output		
Rated Output Voltage	11 kV, 15 kV, 20 kV, 22 kV, 30 kV, 33 kV, 35 kV <sup>2</sup>	13.8 kV, 34.5 kV <sup>2</sup>
Frequency	50 Hz	60 Hz
Transformer Type	Oil-immersed, Conservator Type	
Transformer Cooling Type	ONAN	
Transformer Tappings	± 2 x 2.5%	
Transformer Oil Type	Mineral Oil (PCB Free)	
Transformer Vector Group	Dy11	
Transformer Min. Peak Efficiency Index	Tier 1 or Tier 2 In Accordance with EN 50588-1	
RMU Type	SF <sub>6</sub> Gas Insulated	
RMU Transformer Protection Units	MV Vacuum Circuit Breaker Units	
RMU Cable Incoming / Outgoing Units	Direct Cable Unit or Cable Load Break Switch Unit	
Auxiliary Transformer	Dry Type Transformer, 5 kVA, Dyn11	
Output Voltage of Auxiliary Transformer	400 / 230 Vac or 220 / 127 Vac	
Protection		
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz	
Protection Degree of MV & LV Room	IP 54	
Internal Arcing Fault Classification of STS	IAC A 20 kA 1s	
MV Relay Protection	50/51, 50N/51N	
LV Overvoltage Protection	Type I+II	
Anti-rodent Protection	C5 Medium in accordance with ISO 12944	
Features		
2 kVA UPS	Optional <sup>3</sup>	
MV Surge Arrester for MV VCB	Optional <sup>3</sup>	
General		
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20' HC Container)	
Weight	< 15 t	
Operating Temperature Range	-25°C ~ 60°C <sup>4</sup> (-13°F ~ 140°F)	
Relative Humidity	0% ~ 95%	
Max. Operating Altitude	1,000 m <sup>5</sup>	1,500 m <sup>5</sup>
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite	
LV & MV Room Cooling	Smart Cooling without Air-cross for Higher Availability	
Communication	Modbus-RTU, Preconfigured with Smartlogger3000B	
Applicable Standards	IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1	

1 - More detailed AC power of STS, please refer to the de-rating curve.

2 - Rated output voltage from 10 kV to 35 kV, more available upon request.

3 - Extra expense needed for optional features which standard product doesn't contain, more options upon request.

4 -When ambient temperature ≥55°C, awning shall be equipped for STS on site by customer.

5- For higher operating altitude, pls consult with Huawei.