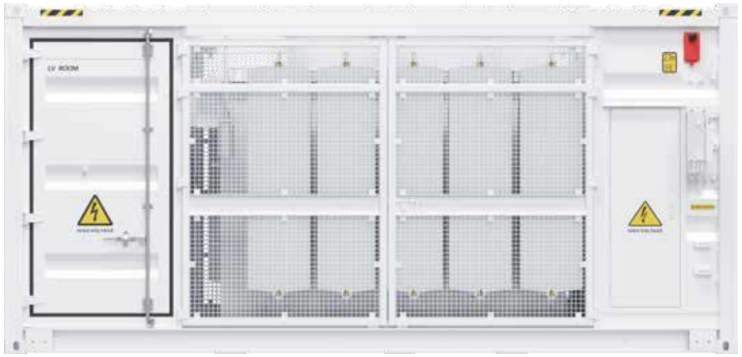
JUPITER-9000K/6000K/3000K-H1(built-in SACU)
Smart Transformer Station



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

Safe

Meets IEC 61641, Up to Class C 1 arcing protection on LV side Update the function for MV protection, Change to Upward arc discharge, Meets IEC 62271-202 IAC-A

Smart

Real-time detection of transformer, LV panel and RMU high precision sensor of LV electricity parameters Remote control of ACB and MV circuit breaker

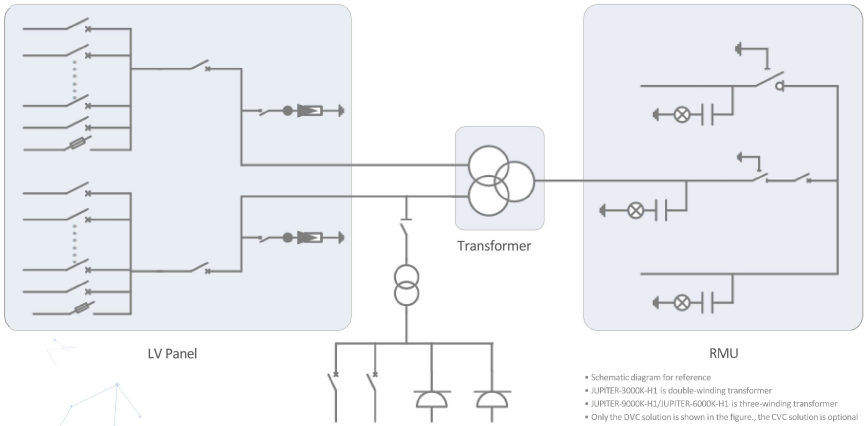
Reliable

Robust design against harsh environments optimal cooling Design for high availability and easy O&M Comprehensive tests from components, device to solution

Environmental protection

STS Can support natural ester vegetable oils Environmentally friendly, easy to degrade, 98% degradable in 28 days High flash point, > 350°C, not easily combusti- bleOil-free sump design, Simplify O&M

Schematic Diagram



- Schematic diagram for reference
- JUPITER-3000K-H1 is double-winding transformer
- JUPITER-9000K-H1/JUPITER-6000K-H1 is three-winding transformer
- Only the DVC solution is shown in the figure., the CVC solution is optional

Technical Specifications

Model	JUPITER-9000K-H1(built-in SACU)	JUPITER-6000K-H1(built-in SACU)	JUPITER-3000K-H1(built-in SACU)
Input			
Available Inverters / PCS	SUN2000-330KTL-H1 / SUN2000-330KTL-H2 / LUNA2000-213KTL-H0		
Max. MCCB inputs	30	24 [3]/22	12 [3]/11
Max. LV AC Inputs	60 [3]	48 [3]/44	24 [3]/22
AC Power	9,000 kVA @40°C [4]	6,600 kVA @40°C [4]	3,300 kVA @40°C [4]
Rated Input Voltage	800 V		
LV Panel Segregation	Form 2b		
LV Main Switches	ACB (4,000 A, 2 x 1 pcs)	ACB (2,900 A, 2 x 1 pcs)	ACB (2,900 A, 1x1 pcs)
LV Main Switches [4]	MCCB (400 A, 2 x 15 pcs)	MCCB (400 A, 2 x 11 pcs)	MCCB (400 A, 11 pcs)
Output			
Rated Output Voltage	10~35 kV [2]		
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)/Natural ester oil (Optional)		
Transformer Vector Group	Dy11-y11		
Transformer Min. Peak Efficiency Index	Tier 1 or Tier 2 In Accordance with EN 50588-1		
RMU Type	SF_6 Gas Insulated		
RMU Transformer Protection Unit	MV Vacuum Circuit Breaker Unit		
RMU Cable Incoming / Outgoing Unit	Direct Cable Unit or Cable Load Break Switch Unit		
Auxiliary Transformer	Dry Type Transformer, 5 kVA, Single-phase, Ii0/50kVA, Three-phase, Dyn11 (Optional)		
Output Voltage of Auxiliary Transformer	400/230/220/210V		
Protection			
Transformer Detection & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz		
Protection Degree of MV & LV Room	IP 54		
Internal Arcing Fault of STS	Standard IAC A 20 kA 1s/ IAC A 25 kA 1s (Optional)		
MV Arc Releasing	MV Upward Arc Releasing for Higher Safety, Meets IEC 62271-202 IAC-A		
LV Arc Releasing	Meets IEC 61641 up to Class C arcing protection on LV side		
MV Relay Protection	DVC/CVC Standard 50/51, 50N/51N DVC High Standard 50/51, 50N/51N, 87, 50BF, 51G, Inrush Blocking, Watchdog, 49T (External trip), FR (Optional) CVC High Standard 50/51, 50N/51N, 49, 86, 27, 59, 79, 74, 59N, 50BF, Inrush Blocking, Watchdog, 49T(External Trip), FR (Optional)		
LV Overvoltage Protection	Type I+II		
Anti-corrosion Protection	C4-H/C5-M		
Features			
2 kVA UPS	Optional [6]		
MV Surge Arrester for Transformer	Optional [6]		
IMD License	Optional [6]		
General			
Dimensions (W x H x D)	6,058 x 2,896 x 2,438 mm (20' HC ISO Container)		
Weight	< 28 t	< 23 t	< 15 t
Operating Temperature Range	-25°C ~ 60°C [7]		
Relative Humidity	0% ~ 95% (Non-condensing)		
Max. Operating Altitude	1,000 m [8]		
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite		
LV & MV Room Cooling	Smart Cooling without Air-across for Higher Availability		
Communication	Modbus TCP, Preconfigured with SmartACU		
Standards Compliance			
IEC 62271-202, EN 50588-1, IEC 60076, IEC 62271-200, IEC 61439-1			

1 -only for Jupiter 6000k-H1 and Jupiter 3000k-H1
2 -only for GFM version
3 -one MCCB can aggregate one inverter and one PCS at the same time, Max. LV AC Inputs means Theoretical number of full-access PCS
4 -More detailed AC power of STS, please refer to the de-rating curve.
5 -Rated output voltage from 10 kV to 35 kV, more available upon request
6 -Extra expense needed for optional features which standard product doesn't contain, more options upon request.
7 -When ambient temperature ≥55°C, awning shall be equipped for STS on site by customer.
8 -For higher operating altitude, please consult with Huawei.