

CPS PSA3.5/7/9.1MO

Prefabricated Medium Voltage Station



Simple

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

Smart and Compatible

- Real-time Monitoring of Transformer, LV Panel and RMU.
- High Precision Sensor of LV Electricity Parameters.
- Remote Control of ACB and MV Circuit Breaker, fully compatible design with SCH350K-T-EU.

Efficient and Compliant

- EU compliance, High Efficiency Transformer for Higher Yields, Lower Self-consumption for Higher Yield.

Reliable

- Robust design against Harsh Environments.
- Optimal Cooling Design for High Availability and Easy O&M.

CPS PSA3.5/7/9.1MO



Model name	CPS PSA3.5MO	CPS PSA7MO	CPS PSA9.1MO
Input			
Available Inverters	SCH350K-T-EU		
Max. LV AC Inputs	10	20	26
AC Power ¹	3,500 kVA@40°C (Optional: 3500kVA@45°C)	7,000 kVA@40°C (Optional: 7000kVA@45°C)	9,100 kVA@40°C (Optional: 9100kVA@45°C)
Rated Input Voltage	800 V		
LV Main Inputs	ACB (3,200 A/800 V/3P, 2x1 pcs), MCCB (320 A/800 V/3P, 10 pcs)	ACB (3,200 A/800 V/3P, 2x1 pcs), MCCB (320 A/800 V/3P, 2x10 pcs)	ACB (4,000 A/800 V/3P, 2x1 pcs), MCCB (320 A/800 V/3P, 2x13 pcs)
Output			
Rated Output Voltage	13.8 kV, 15 kV, 20 kV, 30 kV, 34.5 kV, 33 kV ²		
Frequency	50/60 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	Dy11-y11 ²	
Transformer Min. Peak Efficiency Index	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, Dyn11, 0.8/0.4kV		
Output Voltage of Auxiliary Transformer	400 / 230 Vac		
Protection			
Transformer Monitoring & Protection	Oil Level, Oil Temperature, Oil Pressure and Buchholz		
Protection Degree of MV & LV Room	IP 54		
Internal Arcing Fault of RMU	20 kA 1s		
MV Relay Protection	50/51, 50N/51N		
LV Overvoltage Protection	Type II		
Anti-corrosion Protection	C4-H in accordance with ISO 12944		
Features			
2 kVA/1h UPS	Optional ³		
MV Surge Arrester for Transformer	Optional ³		
IMD	Optional ³		
General			
Dimensions (W x H x D)	6,058 x 2,896 x 2,438mm (20' HC Container)		
Weight	< 22t	< 22t	< 28t
Operating Temperature Range	-25°C ~ 60°C ⁴ (-13°F ~ 140°F)		
Relative Humidity	0% ~ 95%		
Max. Operating Altitude	1,000m ⁵		
MV-LV AC Connections	Prewired and Pretested, No Internal Cabling Onsite		
LV & MV Room Cooling	Heat exchanger without Air-across for Higher Availability		
Communication Interface	Preconfigured with PCOMM RS232, RS485, Ethernet, DI/DO, AI/AO		
Communication Protocol	Modbus TCP, Modbus RTU, IEC 60870-5-103, IEC 60870-5-104		
Applicable Standards	IEC 62271-202, IEC 50708-3, IEC 62271-200, IEC 61439-2		

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

2- 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 on site by customer.

5- For higher operating altitude, please consult with Chint Power.