

ITS-8960-MV

Integrated Transformer Station for 1500V Utility PV Plant (For SP-350K-H1 String inverter)



High reliability

- LV busbar fully enclosed protection design
- MV and LV isolated, with independent control room
- Built-in fire alarm system



Low system cost

- Turnkey solution convenient for utility PV project
- Standard 20 feet container design, saving transportation costs
- Integrated MV transformer, RMU, auxiliary transformer and UPS



Convenient O&M

- Module design, easy for O&M
- Integrated internal device communication
- Support IEC 103, IEC 104, IEC 61850 communication protocol

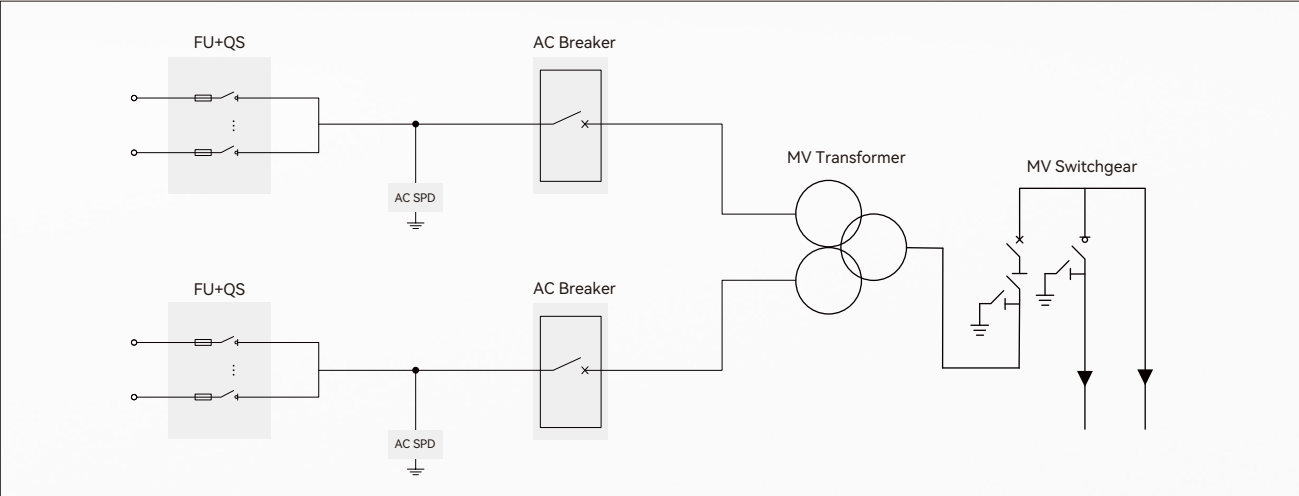


More safety

- IP54 protection level
- Electrical and mechanical Interlocking more safety
- Compliance with IEC 60076 , IEC 61439, IEC 62271



Circuit Diagram



Model	ITS-8960-MV
Input	
AC power	8960kVA@40℃ / 9856kVA@30℃
Max. Inverters Quantity	28
Rated Input voltage	800V
Main switch specification	4000A/800Vac/3P, 2pcs
Disconnecter specification	260A/800Vac/3P, 28pcs
Fuse specification	400A/800Vac/1P, 84pcs
Output	
Rated AC output Voltage	20~35kV
Transformer Type	Oil-immersed
Transformer Vector Group	Dy11y11
Rated grid frequency/range	50Hz±5Hz/60Hz±5Hz
Transformer Tappings	±2x2.5%
Impedance	9.5% (±10%)
MV Switchgear Type	SF6 Gas Insulated, 3 feeders
Protection	
AC input protection	Fuse+disconnecter
Transformer protection	Oil-temperature, Oil-level, Oil-pressure and Buchholz
AC MV output protection	Circuit breaker
LV Overvoltage protection	Type II (Optional: Type I+II)
MV Relay Protection	50/51, 50N/51N
Internal arcing fault	IAC AFL 20kA/1s
General Data	
Auxiliary power supply	Standard: 5kVA, Optional: Max. 40kVA
Degree of protection	IP54
Operating temperature	-30 to+60℃
Allowed humidity (non condensing)	0-95%
Transformer Cooling mode	ONAN (Oil Natural Air Natural)
Max. operating altitude	2000m (standard) />2000m (Optional)
Communication port	RS485/Ethernet/Optional: Optical fiber
Certificates (more available on request)	IEC 60076, IEC 62271, IEC 61439
Dimensions (W×H×D)	6058x2896x2438mm
Approximate weight	27 T