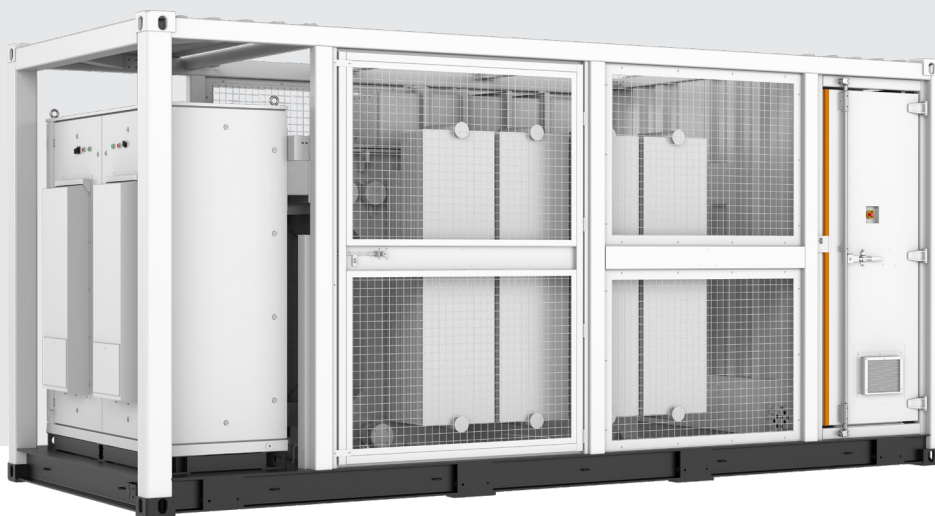


MVS7040-LV

MV Turnkey Solution for 1500 Vdc String Inverter SG350HX / SG350HX-20



SAVED INVESTMENT

- Up to 7.7 MW block design
- Easy transportation due to standard container design
- All pre-assembled for easy set-up and commissioning



SAFETY

- MV and LV isolated, independent control room
- All key components front accessible, no need walk-in operation



EASY O&M

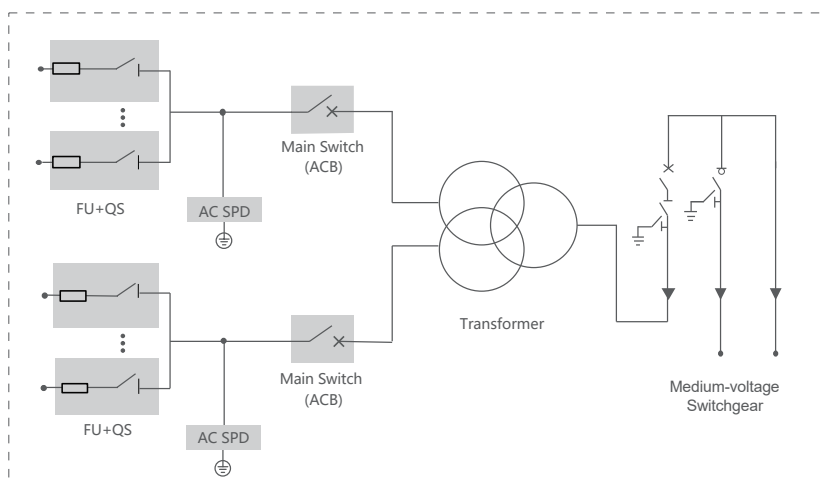
- Online analysis for fast trouble shooting
- Modular design, main device easy replacement



RELIABLE

- All components type-tested
- Compliance with standards: IEC 60076, IEC 62271, IEC 61439

CIRCUIT DIAGRAM



Type designation	MVS7040-LV
Transformer	
Transformer type	Oil immersed
Rated power	7040 kVA @ 40 °C
Max. power	7744 kVA @ 30 °C
Vector group	Dy11y11
LV / MV voltage	0.8 kV - 0.8 kV / (10 – 35) kV
Maximum input current at nominal voltage	2794 A * 2
Frequency	50 Hz / 60 Hz
Tapping on HV	0, ± 2 * 2.5 %
Efficiency	≥ 99 %
Cooling method	ONAN (Oil Natural Air Natural)
Impedance	8 % (± 10 %)
Oil type	Mineral oil (PCB free)
Winding material	Al (Option:Cu)
Insulation class	A
MV Switchgear	
Insulation type	SF6
Rate voltage	24 kV – 40.5 kV
Rate current	630 A
Internal arcing fault	IAC AFL 20 kA / 1 s
LV Panel	
Main switch specification	4000 A / 800 Vac / 3P, 2 pcs
Disconnecter specification	260 A / 800 Vac / 3P, 22 pcs
Fuse specification	350 A / 800 Vac / 1P, 66 pcs
Protection	
AC input protection	Fuse+Disconnecter
Transformer protection	Oil-temperature, Oil-level, Oil-pressure, Buchholz
Relay protection	50 / 51 , 50 N / 51 N
Surge protection	AC Type I + II
General data	
Dimensions(W*H*D)	6058 mm * 2896 mm * 2438 mm
Approximate weight	22 T
Operating ambient temperature range	-30 °C to 60 °C
Auxiliary power supply	5 kVA / 400 V (optional: max. 40 kVA)
Degree of protection	IP54
Allowable relative humidity range (non-condensing)	0 % – 95 %
Operating altitude	1000 m (standard) / > 1000 m (optional)
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	IEC 60076, IEC 62271-200, IEC 62271-202, IEC 61439-1, EN 50588-1