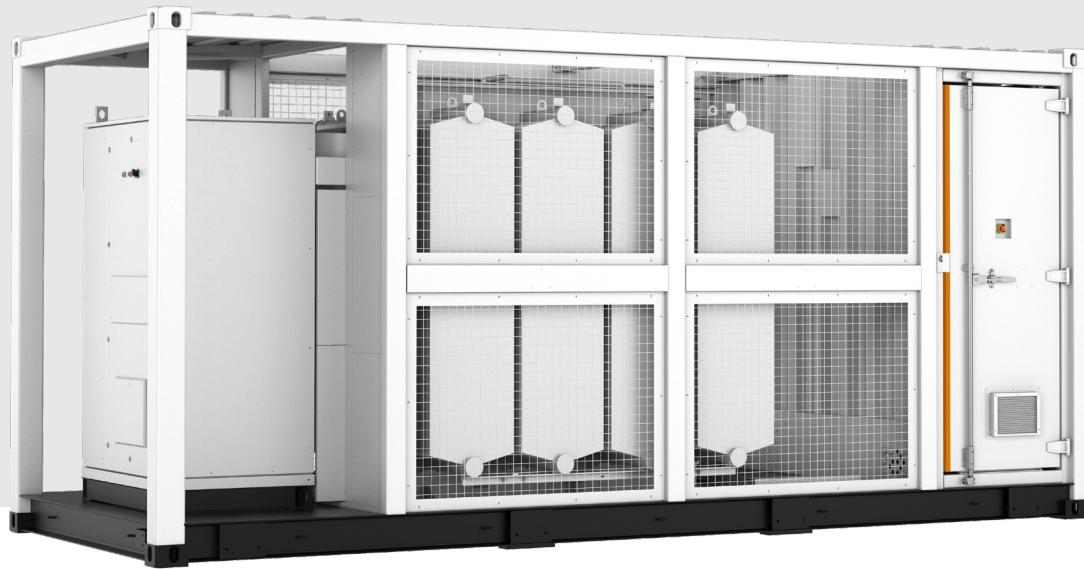


MVS3200/4480-LV

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



SAVED INVESTMENT

- Up to 4.48 MW block design
- Easy transportation due to standard container design
- All pre-assembled for easy set-up and commissioning



EASY O&M

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



SAFETY

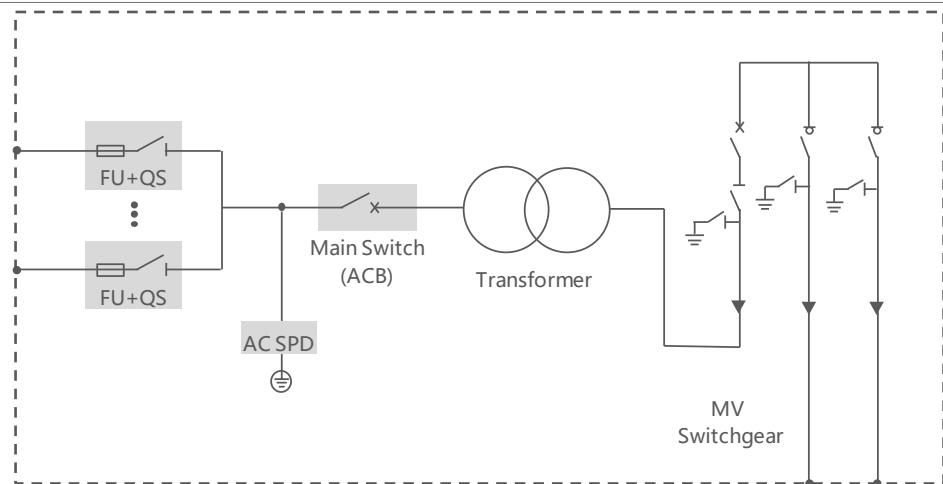
- MV and LV isolated, independent control room
- All key components front accessible, no need walk-in operation



RELIABLE

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

CIRCUIT DIAGRAM



Type designation	MVS3200-LV	MVS4480-LV
Transformer		
Transformer type		Oil immersed
Rated power	3200 kVA @ 40 °C	4480 kVA @ 40 °C
Max. power	3520 kVA @ 30 °C	4928 kVA @ 30 °C
Vector group		Dy11
LV / MV voltage		0.8 kV / (10 - 35) kV
Maximum input current at nominal voltage	2540 A	3557 A
Frequency		50 Hz / 60 Hz
Tapping on HV		0, ± 2 * 2.5 %
Efficiency		≥ 99 % (optional: Tier2)
Cooling method		ONAN (Oil Natural Air Natural)
Impedance	7 % (± 10 %)	8 % (± 10 %)
Oil type		Mineral oil (PCB free)
Winding material		Al / Al
Insulation class		A
MV switchgear		
Insulation type		SF6
Rated voltage range		24 kV - 40.5 kV
Rated current		630 A
Internal arcing fault		IAC AFL 20 kA / 1s
LV panel		
Main switch specification		4000 A / 800 Vac / 3P, 1 pcs
Disconnecter specification	260 A / 800 Vac / 3P, 10 pcs	260 A / 800 Vac / 3P, 14 pcs
Fuse specification	400A / 800 Vac / 1P, 30 pcs	400 A / 800 Vac / 1P, 42 pcs
Protection		
AC input protection		Fuse+Disconnecter
Transformer protection		Oil-temperature, Oil-level, Oil-pressure, Buchholz
Relay protection		50 / 51, 50N / 51N
Surge protection		AC Type I + II
General data		
Dimensions(W*H*D)		6058 mm * 2896 mm * 2438 mm
Approximate weight	15 T	17 T
Operating ambient temperature range *		-20 °C to 60 °C (optional: -30 °C to 60 °C)
Auxiliary transformer supply		15 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, Optical fiber
Compliance		IEC 60076, IEC 62271-200, IEC 62271-202, IEC 61439-1, EN 50588-1

* The ambient temperature is determined as the average temperature obtained from at least four evenly distributed temperature monitoring points located at a distance of 1 meter from the equipment, at a height halfway up the machine. The temperature sensors must be shielded from airflow, thermal radiation, and rapid temperature fluctuations to prevent display inaccuracies.