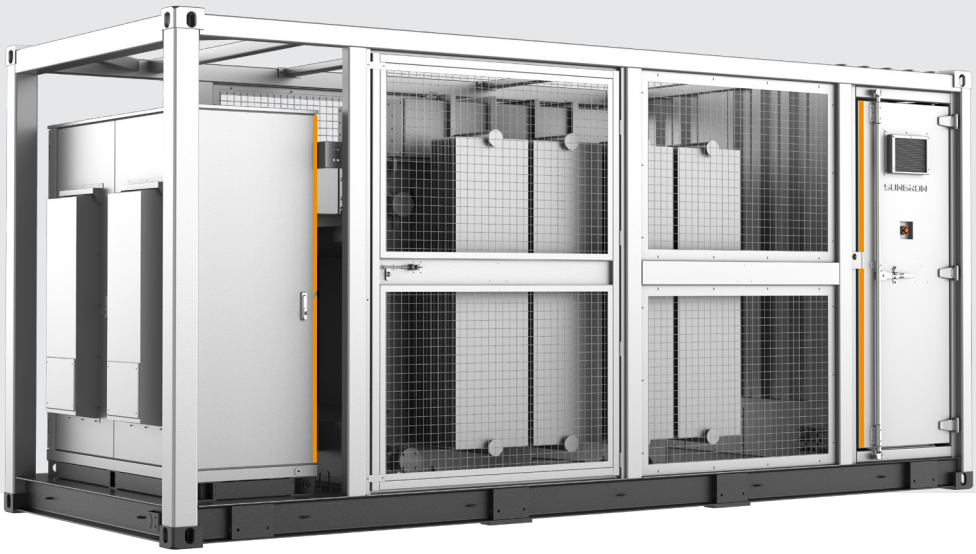
# MVS6400-LV

## MV Turnkey Solution for 1500 Vdc String Inverter SG350HX



### SAVED INVESTMENT

- Up to 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

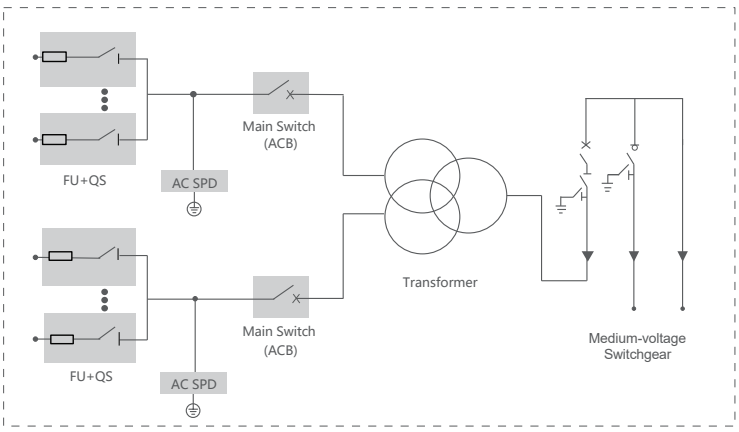
### EASY O&M

- 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



SUNGROW
Clean power for all

| Type designation | MVS6400-LV |
|---|---|
| **Transformer** | |
| Transformer type | Oil immersed |
| Rated power | 6400 kVA @ 40 ℃ |
| Max. power | 7040 kVA @ 30 ℃ |
| Vector group | Dy11y11 |
| LV / MV voltage | 0.8 - 0.8 kV / 10 – 35 kV |
| Maximum input current at nominal voltage | 2540 A * 2 |
| Frequency | 50 Hz / 60 Hz |
| Tapping on HV | 0, ± 2 * 2.5 % |
| Efficiency | ≥ 99 % |
| Cooling type | 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 – 36 kV |
| Rate current | 630 A |
| Internal arcing fault | IAC AFL 20 kA / 1 s |
| Qty. of feeder | 3 feeders |
| **LV panel** | |
| Main switch specification | 4000 A / 800 Vac / 3P, 2 pcs |
| Disconnector specification | 260 A / 800 Vac / 3P, 20 pcs |
| Fuse specification | 400A / 800 Vac / 1P, 60 pcs |
| **Protection** | |
| AC input protection | FUSE+Disconnector |
| Transformer protection | Oil-temperature, oil-level, oil-pressure |
| Relay protection | 50/51, 50N/51N |
| LV overvoltage protection | AC Type II (Optional: 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 to 60 ℃ |
| Auxiliary transformer 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, EN50588-1 |