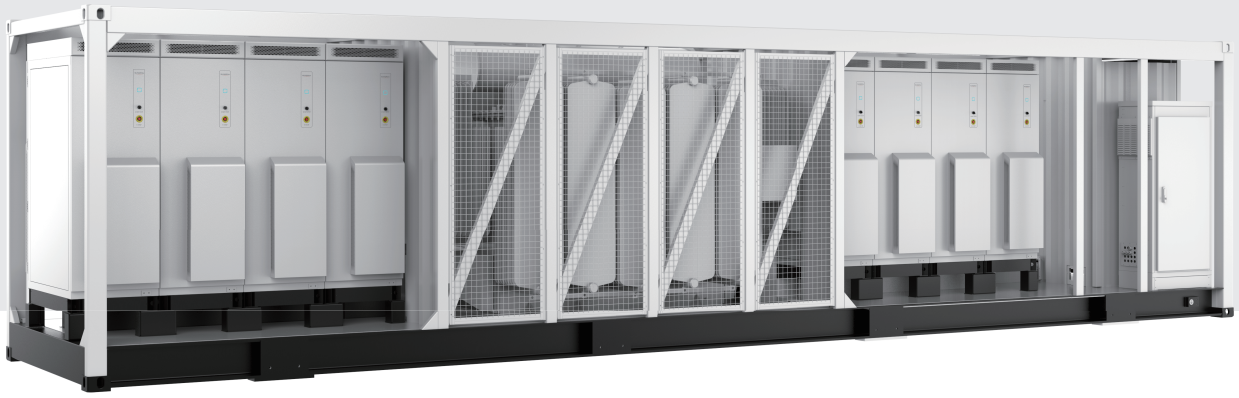
SG8800UD-MV-20

Turnkey Station for 1500 Vdc System MV Transformer Integrated

Preliminary



HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99%
- Effective cooling, full power operation at 50℃

SMART O&M

- Integrated zone monitoring and MV parameters monitoring function for onlione analysis and trouble shooting
- Modular design, easy for maintenance

SAVED INVESTMENT

- Low transportation and installation cost due to 40-foot container design
- DC 1500V system, low system cost
- Integrated MV transformer, switchgear, and LV auxiliary power supply
- Q at night function optional

GRID SUPPORT

- Compliance with standards: IEC 61727, IEC 62116,IEC 62271-202, IEC 62271-200, IEC 60076
- Low/High voltage ride through (L/HVRT)
- Active & reactive power control and power ramp rate control

MENA

SUNGROW
Clean power for all

Type designation	SG8800UD-MV-20
Input (DC)	
Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	950 V / 980 V
MPP voltage range	950 – 1300 V
No. of independent MPP inputs	8
No. of DC inputs	40 (optional: 48/56 inputs negative grounding)
Max. PV input current	8 * 1400 A
Max. DC short-circuit current	8 * 5000 A
PV array configuration	Negative grounding or floating
Output (AC)	
AC output power	8800 kVA @ 50 ℃, 10560 kVA @ 20 ℃
Max. inverter output current	8 * 1155 A
Max. AC output current	305 A
AC voltage range	20 kV – 35 kV
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
Harmonic (THD)	< 3 % (at nominal power)
Power factor at nominal power / Adjustable power factor	>0.99 / 0.8 leading – 0.8 lagging
Feed-in phases / AC connection	3 / 3-PE
Efficiency	
Inverter max. efficiency	99.0 %
Inverter European efficiency	98.7 %
Transformer	
Transformer rated power	8800 kVA
Transformer max. power	10560 kVA
LV / MV voltage	0.66 kV / 0.66 kV / (20 – 35) kV
Impedance	9.5% (0 – ±10%) @ 8800 kVA
Transformer vector	Dy11y11
Transformer cooling type	ONAN/Optional：ONAF
Oil type	Mineral oil (PCB free) or degradable oil on request
Protection & Function	
DC input protection	Load break switch + fuse
Inverter output protection	Circuit breaker
AC MV output protection	Circuit breaker
Surge protection	DC Type II / AC Type II
Grid monitoring / Ground fault monitoring	Yes / Yes
Insulation monitoring	Yes
Overheat protection	Yes
Q at night function	Optional
General Data	
Dimensions (W*H*D)	12192*2896*2438 mm
Weight	≤ 32 T
Degree of protection	Inverter: IP65 / Others: IP54
Auxiliary power supply	5 kVA (optional: max. 40 kVA)
Operating ambient temperature range	-35 to 60 ℃ (> 50 ℃ derating)
Allowable relative humidity range	0 – 100 %
Cooling method	Temperature controlled forced air cooling
Max. operating altitude	1000 m (standard) / > 1000 m (optional)
Display	LED indicators, WLAN+WebHMI
Communication	Standard: RS485, Ethernet; Optional: optical fiber
Compliance	CE, IEC 62109, IEC 61727, IEC 62116, IEC 62271-202, IEC 62271-200, IEC 60076
Grid support	Q at night (Optional), L/HVRT, active & reactive power control and power ramp rate control

 MENA