

SG6600/8800UD-MV

Turnkey Station for 1500 Vdc System MV Transformer Integrated

NEW



HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99%
- Effective cooling, full power operation at 45 °C



SMART O&M

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



SAVED INVESTMENT

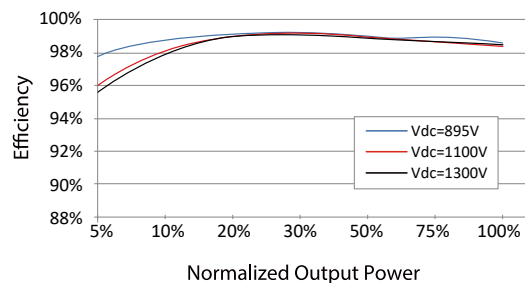
- Low transportation and installation cost due to 40-foot container design
- DC 1500V system, low system cost
- Integrated MV transformer, switchgear, and LV auxiliary power supply
- Q at night function optional



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

EFFICIENCY CURVE



Type Designation	SG6600UD-MV	SG8800UD-MV
Input (DC)		
Max. PV input voltage	1500 V	
Min. PV input voltage / Startup input voltage	895 V / 905 V	
MPP voltage range	895 – 1500 V	
No. of independent MPP inputs	6	8
No. of DC inputs	30 (optional: 36/42 inputs negative grounding)	40 (optional: 48/56 inputs negative grounding)
Max. PV input current	6 * 1435 A	8 * 1435 A
Max. DC short-circuit current	6 * 5000 A	8 * 5000 A
PV array configuration	Negative grounding or floating	
Output (AC)		
AC output power	6600 kVA @ 45 °C	8800 kVA @ 45 °C
	6798 kVA @ 40 °C	9064 kVA @ 40 °C
	7590 kVA @ 20 °C	10120 kVA @ 20 °C
Max. inverter output current	6 * 1160 A	8 * 1160 A
Max. AC output current	438.3 A	292.2 A
AC voltage range	10 kV – 35 kV	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 / Inverter European efficiency	99.0 % / 98.7 %	
Transformer		
Transformer rated power	6600 kVA	8800 kVA
Transformer max. power	7590 kVA	10120 kVA
LV / MV voltage	0.63 kV / 0.63 kV / (10 – 35) kV	0.63 kV / 0.63 kV / (20 – 35) kV
Impedance	8 % (0 – ±10 %) @ 6600 kVA	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	≤28 T	≤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 °C (>45 °C 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	

