SG3300UD/SG4400UD

Outdoor Inverter for 1500 Vdc System

HIGH YIELD

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

SMART O&M

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

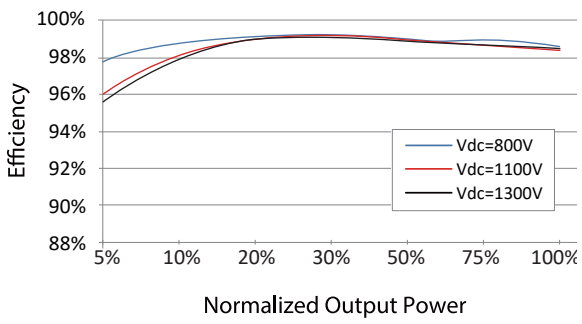
SAVED INVESTMENT

- Low transportation and installation cost due to outdoor design
- DC 1500 V system, low system cost
- Q at night function optional

GRID SUPPORT

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

EFFICIENCY CURVE



Type designation	SG3300UD	SG4400UD
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	3	4
No. of DC inputs	15(optional: 18/21 inputs negative grounding)	20(optional: 24/28 inputs negative grounding)
Max. PV input current	3 * 1435 A	4 * 1435 A
Max. DC short-circuit current	3 * 3528 A	4 * 3528 A
PV array configuration	Negative grounding or floating	
Output (AC)		
AC output power	3300 kVA @ 45 ℃ 3399 kVA @ 40 ℃ 3795 kVA @ 20 ℃	4400 kVA @ 45 ℃ 4532 kVA @ 40 ℃ 5060 kVA @ 20 ℃
Max. AC output current	3 * 1160 A	4 * 1160 A
Nominal AC voltage	630 V	
AC voltage range	536 – 693 V	
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	
Efficiency		
Max. efficiency / European efficiency	99.0 % / 98.7 %	
Protection & Function		
DC input protection	Load break switch + fuse	
AC output protection	Circuit breaker	
Overvoltage protection	DC Type II / AC Type II	
Grid monitoring / Ground fault monitoring	Yes / Yes	
Insulation monitoring	Yes	
Surge protection	Yes	
Q at night function	Optional	
General Data		
Dimensions (W*H*D)	2130 mm * 2235 mm * 1690 mm	2845 mm * 2235 mm * 1690 mm
Weight	≤ 2.5 T	≤ 3.3 T
Topology	Transformerless	
Degree of protection	IP65	
Night power consumption	< 200 W	
Operating ambient temperature range	-35 to 60 ℃ (> 40 ℃ derating)	
Allowable relative humidity range	0 – 100 %	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	4000 m (> 3000 m derating)	
Display	LED indicators, WLAN+WebHMI	
Communication	Standard: RS485, Ethernet; Optional: optical fiber; MPLC	
Compliance	CE, IEC 62109, IEC 61727, IEC 62116, IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4120:2018, EN 50549-1/2, UNE 206007-1:2013, P.O.12.3, UTE C15-712-1:2013	
Grid support	Q at night function (optional), L/HVRT, active & reactive power control and power ramp rate control, Q-U control, P-f control	