

SG1100UD-20 PV Inverter for 1500Vdc System



HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99 %
- Effective cooling, full power operation at 52 °C



SMART O&M

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



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



SAVED INVESTMENT

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



Type designation		SG1100UD-20
Input (DC)		
Max. PV input voltage	1500 V	
Min. PV input voltage / Startup input voltage	938 V / 950 V	
MPP voltage range	938 V – 1500 V	
No. of independent MPP inputs	1	
No. of DC inputs	5 (optional: 7)	
Max. PV input current	1435 A	
Max. DC short-circuit current	3528 A	
PV array configuration	Negative grounding or floating	
Output (AC)		
AC output power	1100 kVA @ 52 °C, 1320 kVA @ 23 °C	
Max. AC output current	1155 A	
Nominal AC voltage	660 V	
AC voltage range	561 V – 726 V	
Nominal grid frequency / Grid frequency range	50 Hz / 45 Hz – 55 Hz, 60 Hz / 55 Hz – 65 Hz	
Harmonic (THD)	< 1.5 % (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	
Surge 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)	700 mm * 2290 mm * 1525 mm	
Weight	800 kg	
Topology	Transformerless	
Degree of protection	IP65	
Night power consumption	< 200 W	
Operating ambient temperature range *	-35 °C – 60 °C	
Allowable relative humidity range	0 % – 100 %	
Cooling method	Temperature controlled forced air cooling	
Max. operating altitude	4000 m (> 2000 m derating)	
Display	LED Indicators, Ethernet+WebHMI	
Communication	Standard: RS485, Ethernet	
Compliance	CE, IEC 62109, IEC 61727, IEC 62116, IEC 60068, IEC 61683	

* Due to the multi-supplier for some key components, the actual weight may have a ±8% deviation, please refer to the actually delivered product.

** Rated Condition: PV input voltage 1080V, AC voltage 800V, AC output power 320kW.

EFFICIENCY CURVE

