

SG1250HV/SG1500HV NEW

For 1500 Vdc System



Cost Effective

- Efficient three-level topology, maximum efficiency up to 99 %
- Small dimension less than 2.89 m³
- Lower system cost



Flexible

- Complete grid support: LVRT,ZVRT,HVRT
- PF range from lagging 0.8 to leading 0.8
- Wide MPP range suitable for flexible design



Reliable

- Temperature controlled forced air-cooling
- Integrated DC and AC protection function



Easy Maintenance

- Modular design easy for maintenance
- Integrated current monitoring easy for fast trouble shooting



Input (DC)	SG1250HV	SG1500HV
Max. PV input voltage	1500 V	
Max. input current	1754 A	
MPP voltage range	800 - 1300 V	900 - 1300 V
No. of DC inputs	10	12

Output (AC)	SG1250HV	SG1500HV
Nominal AC output power	1250 kW	1500 kW
Max. AC output apparent power	1375 kVA	1500 kVA
Max. AC output current	1443 A	
THD	< 3 % (at nominal power)	
Nominal AC voltage	550 V	600 V
AC voltage range	440 - 632 V	480 - 690 V
Nominal grid frequency	50 Hz / 60 Hz	
Grid frequency range	45 - 55 Hz / 55 - 65 Hz	
Power factor range	0.8 leading - 0.8 lagging	
Isolated transformer	No	
DC current injection	< 0.5 % I _n	

Efficiency	SG1250HV	SG1500HV
Max. efficiency	99.00 %	
Euro. efficiency	98.70 %	

General Data	SG1250HV	SG1500HV
Dimensions (W*H*D)	1805*1915*835 mm	71.1"*75.4"*32.9"
Weight	1650 kg	3638 lb
Operating ambient temperature range	-30 to 65 °C (> 55 °C derating) -22 °F to 149 °F (> 131 °F derating)	
Night power consumption	< 20 W	
Cooling method	Temperature controlled air-cooling	
Ingress protection rating	IP21	
Allowable relative humidity range	0 - 95 %, no condensing	
Max. operating altitude	4500 m (> 3500 m derating) 14763.8 ft (> 11482.9 ft derating)	4000 m (> 2000 m derating) 13123 ft (> 6561 ft derating)
Display	Touch screen	
Communication	RS485, Ethernet	

Protections & Functions	SG1250HV	SG1500HV
Anti-PID function	Optional	
Grid support functions	LVRT, HVRT, ZVRT, anti-islanding, active & reactive power regulation, PF control, soft start/stop	
DC input protection	Circuit Breaker	
AC output protection	Circuit Breaker	
DC overvoltage protection	Type II	
AC overvoltage protection	Type II	
Grid monitoring	Yes	
Ground fault monitoring	Yes	
Overheat protection	Yes	
Insulation monitoring	Yes	

Efficiency Curve

