

SG3400HV-30

Outdoor Inverter for 1500 Vdc System



HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99 %
- Effective cooling, full power operation at 50 °C (SG3125HV-30)



SMART O&M

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



SAVED INVESTMENT

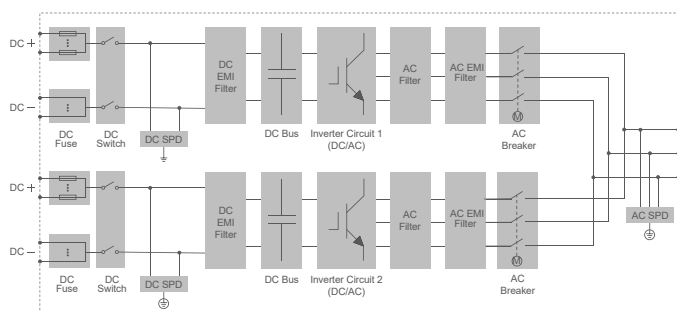
- Low transportation and installation cost due to outdoor design
- DC 1500 V system, low system cost
- Q at night function optional



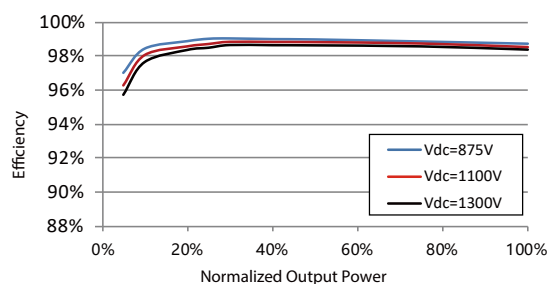
GRID SUPPORT

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

CIRCUIT DIAGRAM



EFFICIENCY CURVE



Type designation	SC3400HV-30
Input (DC)	
Max. PV input voltage	1500 V
Min. PV input voltage / Startup input voltage	875 V / 915 V (875 V – 1300 V settable)
MPP voltage range	875 – 1300 V
No. of independent MPP inputs	2
No. of DC inputs	18(optional: 22/24 inputs negative grounding or floating; 28 inputs negative grounding)
Max. PV input current	3997 A
Max. DC short-circuit current	10000 A
Output (AC)	
AC output power	3437 kVA @ 45 °C
Max. AC output current	3308 A
Nominal AC voltage	600 V
AC voltage range	510 – 660 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz
Harmonic (THD)	< 3 % (at nominal power)
DC current injection	< 0.5 % In
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	
Max. efficiency	99.0 %
European efficiency	98.7 %
Protection	
DC input protection	Load break switch + fuse
AC output protection	Circuit breaker
Surge protection	DC Type I + 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)	2280 * 2280 * 1600 mm
Weight	3.2 T
Topology	Transformerless
Degree of protection	IP55 (optional: IP65)
Night power consumption	< 200 W
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	4000 m (> 3000 m derating)
Display	Touch screen
Communication	Standard: RS485, Ethernet
Compliance	CE, IEC 62109, IEC 61727, IEC 62116
Grid support	Q at night function (optional), L/HVRT, active & reactive power control and power ramp rate control