

SG1250



SUNGROW Inverter, Designed For TrinaPro



High Yield

- Efficient three-level technology,max. efficiency 99%
- 2 MPPT,wide MPP voltage
Full power operation with out derating at 50°C
- One inver unit fails,the other unit continues operation



Easy O&M

- Integrated current and voltage monitoring function for online analysis and fast trouble shooting
- Module design and front service ,easy for maintenance
- DC circuit breaker design for convenient maintenance



Saved Investment

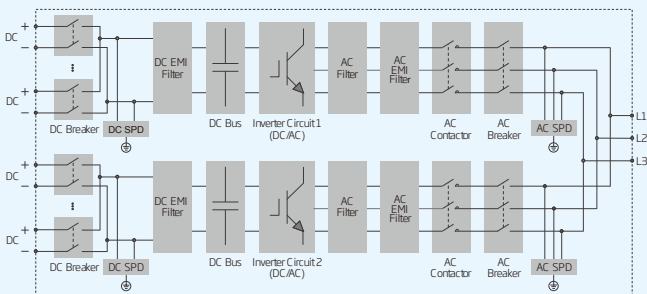
- Low transportation and installation cost due to 10-foot container design
- DC 1500V system,low system cost
- Integrated LV auxiliary power supply



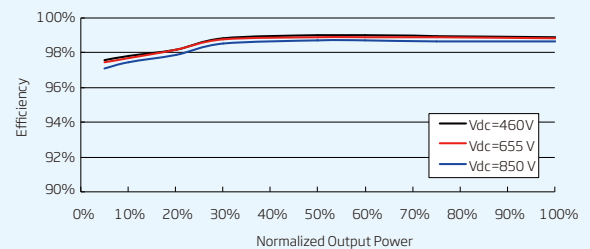
Grid Support

- Compliance with local standards:CE, IEC 62109, IEC61727 and IEC 62116
- Low/High voltage ride through(L/HVRT)
- Active&reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



Input(DC)

	SG1250
Max.PV input voltage	1000V
Min.PV input voltage/Startup input voltage	520V/540V
MPP voltage range for nominal power	520-850V
No.of independent MPP inputs	2
Max.No.of DC inputs	16
Max.PV input current	2712A
Max.DC short-circuit current	3254A

Output(AC)

Nominal AC power(at 50°C)	1260KW
Max.AC output power at PF=1(at 45°C)	1386KW
Max.AC apparent power(at 45°C)	1386KVA
Max.AC output current	2222A
Nominal AC voltage	360V
AC voltage range	288-414V
Nominal grid frequency/Grid frequency range	50Hz/45-55Hz,60Hz/55-65Hz
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/Connection phases	3/3

Efficiency

Max. efficiency/Euro. efficiency	99.0%/98.7%
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Protection

DC input protection	Circuit breaker
AC output protection	Circuit breaker
Overvoltage protection	DC Type II/AC Type II
Grid monitoring/Ground fault monitoring	Yes/Yes
Insulation monitoring	Yes
Overheat monitoring	Yes
Anti-PID function	Optional

General Data

Dimensions(W*H*D)	2991*2591*2438mm
Weight	4.3T
Isolation method	Transformerless
Degree of protection	IP54
Auxiliary power supply	220Vac,2Vac, 5/Optional:380Vac,up to 15KVA
Operating ambient temperature range	-35 to 60°C(> 50°C derating)
Allowable relative humidity range(non-condensing)	0-95%
Cooling method	Temperature controlled forced air cooling
Max.operating altitude	5000m(> 3000m derating)
Display	Touch screen
Connection	Standard:RS485,Ethernet;Optional:optical fiber
Compliance	CEA,IEC 62109,IEC 61727,IEC 62116, IEC 60068,IEC616883,CE
Grid Support	LVRT,HVRT,active & reactive power control and power ramp rate control
Type designation	SG1250HV-10