

SG2500HV

SG3000HV



SUNGROW Inverter, Designed For TrinaPro



High Yield

- Efficient three-level topology,max.system efficiency up to 99%
- 1or2MPPT,wide MPP voltage range
- Full power opwer operation without derating at 50°C
- One inverter unit fails,the other units continue operation



Saved Investment

- DC 1500V system , low system initial investment
- 10-foot container design,no need to build extra inverter house
- Integrated LV auxiliary power supply



Easy O&M

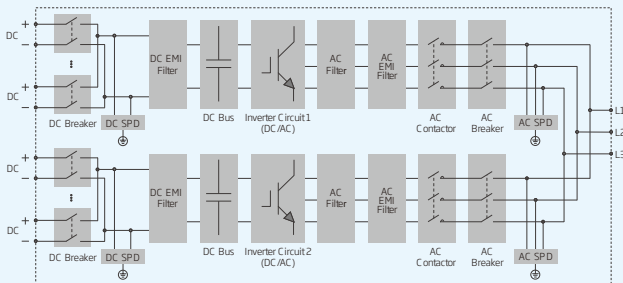
- Integrated zone current monitoring function for fast trouble shooting
- Module design and front service,easy for maintenance
- DC circuit breaker design for convenient maintenance



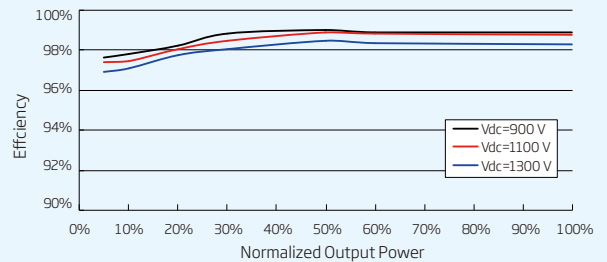
Grid Support

- Compliance with standards:CE,IEC 62109,IEC 61727,IEC 62116,G59/3
- Low/High voltage ride through(L/HVRT)
- Active&reactive power control and power ramp rate control

Circuit Diagram



Efficiency Curve



SG2500HV/SG3000HV

Input(DC)	SG2500HV	SG3000HV
Max.PV input voltage	1500V	
Min.PV input voltage/Startup input voltage	800V/840V	900V/940V
MPP voltage range for nominal power	460-850V	900-1300V
No.of independent MPP inputs	1or2	
No.of DC inputs	16-24	
Max.PV input current	3508A	5424A
Max.DC short-circuit current	4210A	6780A

Output(AC)	SG2500HV	SG3000HV
Nominal AC power	2500KW(at 50°C)	3000KW(at 50°C)
Max.AC output power at PF=1	2750KW(at 50°C)	3000KW(at 50°C)
Max.AC apparent power	2750KVA(at 50°C)	3000KVA(at 50°C)
Max.AC output current	2886A	
Nominal AC voltage	550V	600V
AC voltage range	440-632V	480-690V
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	SG2500HV	SG3000HV
Max.AC efficiency/Euro.efficiency	99.0%/98.7%	

Protection	SG2500HV	SG3000HV
DC reverse connection protection	Yes	
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 protection	Yes	
Anti-PID function	Optional	

General Data	SG2500HV	SG3000HV
Dimensions(W*H*D)	2991*2591*2438mm	
Weight	5.9T	
Isolation method	Transformerless	
Degree of protection	IP54	
Auxiliary power supply	220Vac,2KVA/Optional:380Vac,up to15 KVA	
Operating ambient temoerature 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 altiude	4500m(> 3500m derating)	4000m(> 2000m derating)
Display	Touch screen	
Communication	Standard:RS485,Ethernet;Optional:optical fiber	
Compliance	CEA,IE 62109,IEC61727,IEC62116,IEC60068, IEC61683,CE,G59/3	
Grid Support	LVRT,HVRT,active & reactive power control and power ramp rate control	
Type designation	SG2500HV-10	SG3000HV-10