

## SG2000

## SG2500



SUNGROW Inverter, Designed For TrinaPro



### High Yield

- Efficient three-level topology,max.system efficiency up to 99%
- 1or4MPPT,wide MPP voltage range
- Full power opwer operation without derating at 50°C
- One inverter unit fails,the other units continue operation



### 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



### Saved Investment

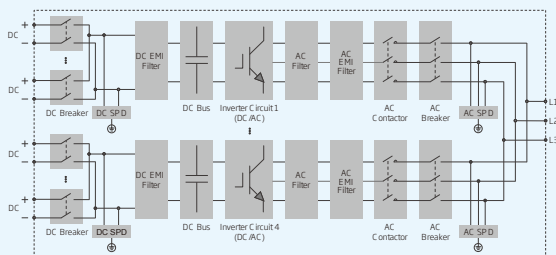
- 10-foot container design,no need to build extra inverter house
- Integrated LV auxiliary power supply



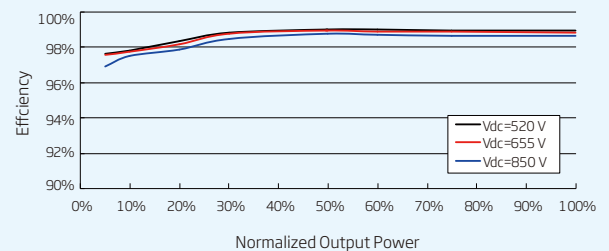
### Grid Support

- 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



# SG2000/SG2500

Input(DC)	SG2000	SG2500
Max.PV input voltage	1000V	
Min.PV input voltage/Startup input voltage	460V/500V	520V/540V
MPP voltage range for nominal power	460-850V	520-850V
No.of independent MPP inputs	1or4	
No.of DC inputs	16-32	
Max.PV input current	4880A	5424A
Max.DC short-circuit current	5840A	6780A

Output(AC)	SG2000	SG2500
Nominal AC power(at 55°C)	2000KW	2520KW
Max.AC output power at PF=1(at 45°C)	2200KW	
Max.AC apparent power(at 45°C)	2200KVA	
Max.AC output current	4032A	4444A
Nominal AC voltage	315V	360V
AC voltage range	252-362V	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	SG2000	SG2500
Max.AC efficiency/Euro.efficiency	99.0%/98.7%	

Protection	SG2000	SG2500
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	SG2000	SG2500
Dimensions(W*H*D)	2991*2591*2438mm	
Weight	6T	
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	5000m(>3000m 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	SG2000-10	