

# SG3400/3125/2500HV-20

Turnkey Station for 1500 Vdc System

**SUNGROW**  
Clean power for all

SG3400/3125/2500HV-20



## HIGH YIELD

- Advanced three-level technology, max. inverter efficiency 99 %



## EASY O&M

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

## SAVED INVESTMENT

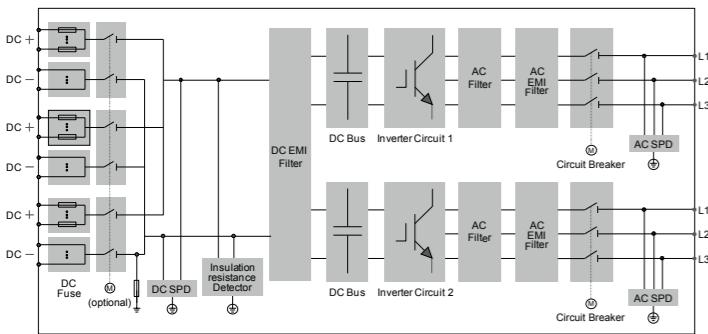
- Low transportation and installation cost due to 10-foot container design
- DC 1500 V system, low system cost
- Integrated LV auxiliary power supply
- Q at night function optional



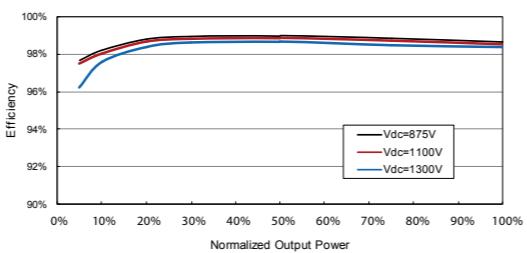
## GRID SUPPORT

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

## CIRCUIT DIAGRAM



## EFFICIENCY CURVE (SG3400HV-20)



Type designation	SG3400HV-20	SG3125HV-20	SG2500HV-20
<b>Input (DC)</b>			
Max. PV input voltage		1500 V	
Min. PV input voltage / Startup input voltage	875 V / 915 V	875 V / 915 V	800 V / 840 V
MPP voltage range for nominal power	875 – 1300 V	875 – 1300 V	800 – 1300 V
No. of independent MPP inputs	1		
No. of DC inputs	21 (optional: 24 negative grounding or floating; 28 negative grounding)		18 – 24
Max. PV input current	4178 A	4178 A	3508 A
<b>Output (AC)</b>			
AC output power	3593 kVA @ 25 °C / 3437 kVA @ 45 °C	3593 kVA @ 25 °C / 3437 kVA @ 45 °C	2750 kVA @ 45 °C / 2500 kVA @ 50 °C
Max. AC output current	3458 A	3458 A	2886 A
Nominal AC voltage	600 V	600 V	550 V
AC voltage range	480 – 690 V	480 – 690 V	495 – 605 V
Nominal grid frequency / Grid frequency range	50 Hz / 45 – 55 Hz, 60 Hz / 55 – 65 Hz		
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		
<b>Efficiency</b>			
Inverter Max. efficiency	99.0%		
Inverter Euro. efficiency	98.7 %		
<b>Protection and Function</b>			
DC input protection		Load break switch + fuse	
AC output protection		Circuit breaker	
Oversupply 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		
<b>General Data</b>			
Dimensions (W*H*D)	2991*2591*2438 mm		
Weight	6.5 T		
Isolation method	Transformerless		
Degree of protection	IP55	IP55	IP54
Auxiliary power supply	415 V, 15 kVA (Optional: max. 40 kVA)		
Operating ambient temperature range	-35 to 60 °C (> 45 °C derating)		
Allowable relative humidity range (non-condensing)	0 – 95 %		
Cooling method	Temperature controlled forced air cooling		
Max. operating altitude	4000 m (> 2300 m derating)	4000 m <td>4000 m<br (&gt;="" 2000="" derating)<="" m="" td=""/></td>	4000 m 
Display	Touch screen		
Communication	Standard: RS485, Ethernet; Optional: optical fiber		
Compliance	CE, IEC 62109, IEC 62116, IEC 61727		
Grid support	Q at night function (optional), L/HVRT, active & reactive power control and power ramp rate control		

