

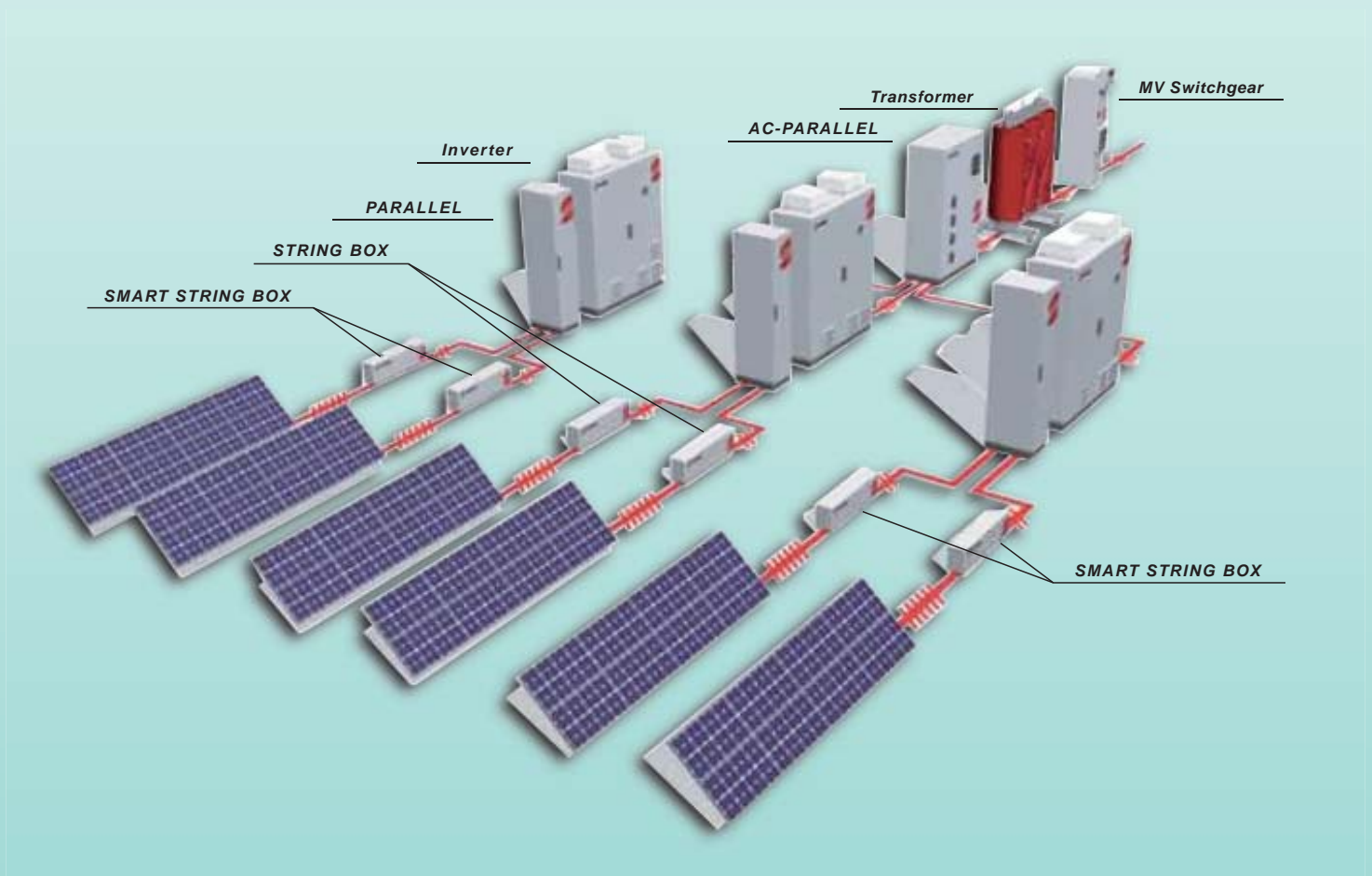


日燭科技有限公司
JD Auspice Co., Ltd



SANTERNO
GRUPPO CARRARO

SUNWAY™ Solar Inverter





SUNWAY™ Solar Inverter

Indoor / outdoor

The SUNWAY TG inverters have been developed, designed and manufactured in accordance with the requirements of the low voltage directives and the electromagnetic compatibility directives.

Standards	
EMC / Model	61000-6-2
Safety	IEC 62109-1, IEC 62109-2
Harmonics	61000-3-4, 61000-3-12
Immunity	EN61000-4-2, EN61000-4-4, EN61000-4-5 EN55011 group 1 class B
Insulation voltage to ground and between input and output	2.5 kV to 50Hz for 60 sec.
Grid connection	CEI 0-21, CEI 0-16 (Italy) BDEW (Germany) CQC (China) UL 1741 and IEEE 1547 (USA)



CE
SUNWAY™
TG 100NA / TG 125NA

Technical features		
Model	TG 100NA	TG 125NA
DC input Voltage Range	315-600 Vdc	315-600 Vdc
Output power level	100 kWac	125 kWac
Output voltage range	208, 240, 480, 600 Vac	208, 240, 480, 600 Vac
Power Factor	> 0.99	> 0.99
AC output current limit	315, 273, 137, 108A	347, 301, 151, 121A
Maximum Dccurrent	363 A	429 A
Efficiency		
Peak Efficiency	97%	97%
CEC Wweighted Eff.	96.50%	96.50%
Dimensions		
Inverter Dimensions (LxHxD)	1400x800x2400	2600x2475x800 mm
Inverter Weight(kg)	1388kg	1485 kg

Product features	
MPP Tracking	315-600 Vdc
Current THD	< 3%
Degree protection	NEMA 3R outdoor installation
Cooling system	Adjustable forced air
Operating temperature (full power)	-25°C to +45°C for TG100 -13°F to 113°F -25°C to +40°C for TG125 -13°F to 104°F
Nominal output frequency	50-60HZ ± 2%



CE
SUNWAY™
TG 800V TE

Technical features			
Model	SUNWAY TG 175 800V TE	SUNWAY TG 385 800V TE	SUNWAY TG 730 800V TE
Input Ratings			
Suggested peak power	161,6 kWp	348,8 kWp	650 kWp
Rated DC input power	140,5 kW	303,3 kW	577,4 kW
Rated input current	304,5 A (dc)	657,6 A (dc)	1253,4 A(dc)
LV Output Ratings			
Max AC rated output power	150 kW	324 kW	617,3 kW
Rated AC output power	136,4kW	294,6 kW	561,2 kW
Rated output current	291,6 A(ac)	629,9 A(ac)	1200 A(ac)
Inverter efficiency			
Maximum Efficiency	98,4 %	98,4 %	98,5 %
European Efficiency	97,6 %	97,7 %	97,7 %
Dimensions			
Inverter Dimensions (LxHxD)	1400x2270x600 mm	1800x2270x800 mm	2800x2475x800mm
Inverter Weight(kg)	640 kg	1030 kg	1800 kg

Product features	
PV field voltage range	415 - 760 Vdc
Open-circuit voltage	880 Vdc
Output voltage	270 Vac ± 15%
Output frequency	50-60HZ ± 2% (up to -3HZ / +2HZ)
PV voltage ripple	< 1%
Total AC current distortion	≤ 3%
Cos f	1
Protection against DC overcurrent (SPD)	Si / yes
Degree of protection	IP44/ from NEMA3 to NEMA 12
Forced cooling system (supply)	Temperature controlled
Operation temperature range	-10°C +40°C
Relative humidity	95% @ 20°C
Inverter Night losses	< 45W Without Datalogger
Insulation voltage to ground and between input and output	2,5kV to 50HZ / 60 sec.
Thermal protection	Intergrated



CE
SUNWAY™
TG 1000V TE

Technical features			
Model	SUNWAY TG 610 1000V TE	SUNWAY TG 750 1000V TE	SUNWAY TG 760 1000V TE
Input Ratings			
Suggested peak power	600 kW	800 kW	877 kW
Rated DC input power	527 kW	727 kW	783 kW
Rated DC input current	900 A (dc)	1243 A(dc)	1338 A(dc)
Max short circuit PV input current	1100 A (dc)	1650 A (dc)	1650 A(dc)
LV Output Ratings			
Max AC rated output power	560 kW	778 kW	836 kW
Rated AC output power / total power	510 kW / 540 kVA	707 kW / 707 kVA	760 kW / 790 kVA
Rated output current	866 A(ac)	1200 A(ac)	1290 A(ac)
Inverter efficiency			
Maximum Efficiency	98,5 %	98,5%	98,5%
European Efficiency	98,1 %	98,1 %	98,1 %
Dimensions			
Inverter Dimensions (LxHxD)	2606x2150x806mm (indoor) 2766x2303x1006 mm (outdoor)	2606x2150x806mm (indoor) 2766x2303x1006 mm (outdoor)	2606x2100x806mm (indoor) 2766x2303x1006 mm (outdoor)
Inverter Weight(kg)	2000 kg (indoor) 2100 kg (outdoor)	2100 kg (indoor) 2200 kg (outdoor)	2100 kg (indoor) 2200 kg (outdoor)

Product features	
PV field voltage range	550 - 820 Vdc
Open-circuit voltage	1000 Vdc
Output voltage	340 Vac ± 10%
Output frequency	50 - 60Hz (up to -3 Hz / +2 Hz)
PV voltage ripple	< 1%
Total AC current distortion	≤ 3%
Default Cos φ - Min Cos φ	1 – 0.9 lead/lag
Protection against overcurrent (SPD)	DC : Yes - AC : optional
Degree of protection	IP20/NEMA1 (indoor) IP54/NEMA 3R (outdoor)
Forced cooling system	Forced air 9000 m3/h (indoor) ; 12000 m3/h (outdoor)
Operation temperature range	-20°C +50°C (-4°F to 122°F)without derating
Relative humidity	95% non-condensing
Inverter Night losses	< 45 W / Without Datalogger
Thermal protection / Environmental Sensors	Integrated, 5 sensors, both on cabinet and power stack / 6 embedded inputs
Digital Communication Channels	2xRS485 with Modbus + Ethernet with TCP/IP

TL 20k Three phase solar inverter

Technical features			
Features	Value		
Grid type	3phase + N + PE		
Rated Output Power ac (kVA)	12.5	16	20
Grid Voltage Operating Range, Phase to phase (UL version)	400 Vac \pm 20%		
Grid Voltage Operating Range, Phase to phase (EU version)	480 Vac +10%, -20%		
Output Current (EU Version)	21 Arms	27 Arms	33 Arms
Output Current (UL Version)	16 Arms	21 Arms	26 Arms
Temporary output overpower	110% Pnom		
Reactive power capability (kVAR)	\pm 5.5	\pm 7	\pm 8.8
Grid Frequency nominal values	50/60Hz		
Grid Frequency Operating Range	47-63 Hz		
Grid current quality	THDi < 3%		
Solar Field Voltage Ripple, + to -	< 2 %		
Number of independent MPPTs	2		
MPPT voltage range	200-850V		
Maximum power MPPT voltage range	350-850V		
Start input voltage	350V		
Absolute maximum voltage at DC inputs	1000V		
Maximum total Input current	45 Adc	54 Adc	54 Adc
String input connectors (DC switch and string monitoring option fitted)	5	7	7
Minimum operating power	1%		
Protection Degree	IP65	Outdoor Installation, no direct sunlight	
Inverter operating temperature range	-25°C - 60°C	Deratin apply at temperature extremes	
Inverter storage temperature range	-30°C - 70°C	Inverter shall not be put in operations at temperature extremes	
Maximum ambient temperature @Pnom before derating	-40°C	Power derating -5% / °C	
Relative humidity operative range	4% - 100%	Occasional condensation on external case surface can occur especially at early morning	
Maximum installation height (no derating)	2000m	Installation up to 4000m with derating	
IEC 60721-3-4 complete class set definition	4K4H/4Z6/4B1/4C2/4S1/4M1	No direct sunlight exposure	

TL 20k Three phase solar inverter

Technical features			
MPPT efficiency	>99.9%		Rated power, resistance method
European Efficiency (EU Version)	98.10%		Boost off
20kVA Efficiency vs Power	5%	94.20%	At 500Vdc and 400Vac, cosφ=1
	10%	96.67%	
	20%	97.77%	
	30%	98.01%	
	50%	97.97%	
	75%	97.66%	
	100%	97.24%	
20kVA Efficiency vs Power	5%	95.20%	Boost off
	10%	97.40%	
	20%	98.30%	
	30%	98.40%	
	50%	98.30%	
	75%	97.90%	
	100%	97.50%	
20kVA Peak efficiency	≥98.4%		

Standards		
European Community Directives	EMC Directive 2004/108/EC LVD Directive 2006/95/EC R&TTE Directive 1999/5/EC RoHS Directive 2011/65/CE	
IEC Standards (EU models only)	IEC 62109-1, IEC 62109-2, IEC 61727, IEC 62116, IEC 61683	
UL Standards (UL models only)	FCC, IEEE 1547, UL1741	
Other product specific standards	GS Mark CEI-021, CEI 0-16, VDE-0126-1-1, VDE-AR-N 4105, BDEW UTE C15-712 RD 1663/2000, PO 12.3	G59 AS 4777.3, AS 3100 CNCA/CTS0004:2009 CNCA/CTS0004:2010 Q-GDW 617-2011 Q-GDW-618-2011



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