

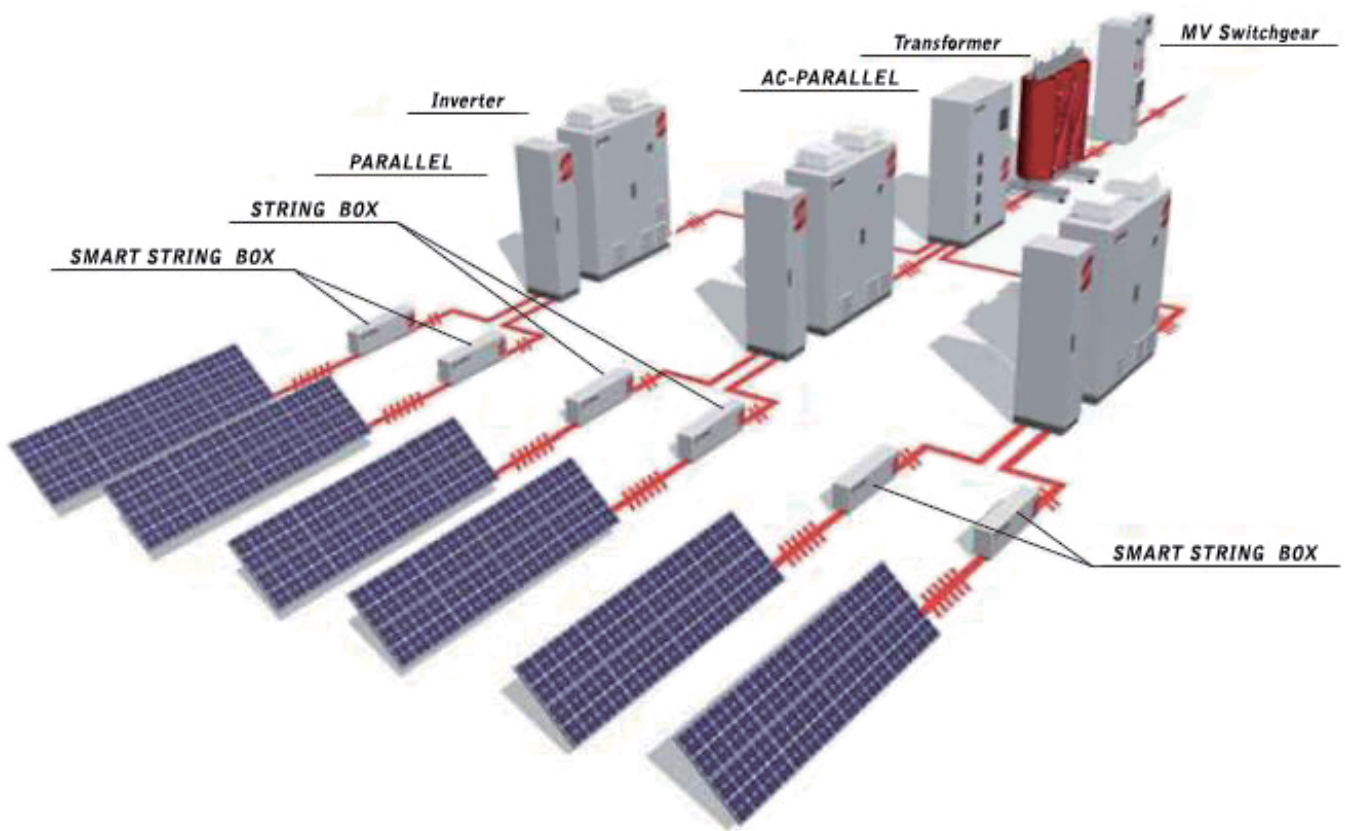


日燭科技有限公司
JD Auspice Co., Ltd



SANTERNO
GRUPPO CARRARO

SUNWAY™ Solar Inverter





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.

| <i>Standards</i> | |
|--|--|
| <i>EMC / Model</i> | 61000-6-2 |
| <i>Safety</i> | IEC 62109-1, IEC 62109-2 |
| <i>Harmonics</i> | 61000-3-4, 61000-3-12 |
| <i>Immunity</i> | EN61000-4-2, EN61000-4-4, EN61000-4-5 EN55011 group 1 class B |
| <i>Insulation voltage to ground and between input and output</i> | 2.5 kV to 50Hz for 60 sec. |
| <i>Grid connection</i> | 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 Wheighted 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 kWP | 800 kWP | 877 kWP |
| 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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