

String Inverter Macsun Solar SC10-20K TL3

DC input voltage up to 1000V Maximum efficiency of 98% Internal DC Switch Transformer less
Compact design Multi MPP controller MTL-string Bluetooth/ RF technology/ Zigbee / Wi- Fi Sound
control Easy installation...



Product Features:

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1000V

Maximum efficiency of
98%

Internal DC switch

Transformerless

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- Maximum efficiency of 98%
- Internal DC switch
- Transformerless
- Compact design
- Multi MPP controller
- MTL-string
- Bluetooth/ RF technology/ WiFi
- Sound control
- Easy installation
- Comprehensive Growatt warranty program.

Specifications:

| Input Data(DC) | | | | |
|--|-----------------|-----------------|-----------------|-----------------|
| Max.DC power | 11000W | 13200W | 19800W | 22000W |
| Max.DC Voltage | 1000V | 1000V | 1000V | 1000V |
| Start Voltage | 350V | 350V | 350V | 350V |
| DC Voltage Range | 180V-1000V | 180V-1000V | 180V-1000V | 180V-1000V |
| MPPT Voltage Range/Nominal voltage | 300V-1000V/600V | 300V-1000V/600V | 300V-1000V/600V | 300V-1000V/600V |
| Full load DC voltage range | 400V-800V | 400V-800V | 400V-800V | 400V-800V |
| Max.input current of tracker | 15A | 17A | 23A | 26A |
| Max.input current per string | 20A | 20A | 20A | 20A |
| Number of MPPT trackers/strings per MPPT tracker | 2/2 | 2/2 | 2/3 | 2/3 |

| > Output Data(AC) — | | | | |
|---|-------------------------|-------------------------|-------------------------|-------------------------|
| Rated AC output Power | 10000W | 12000W | 18000W | 20000W |
| Max.AC power | 10000W | 12000W | 18000W | 20000W |
| Max.output current | 16A | 19A | 28.6A | 32A |
| AC nominal voltage/range | 230V/400V 184Vac-275Vac | 230V/400V 184Vac-275Vac | 230V/400V 184Vac-275Vac | 230V/400V 184Vac-275Vac |
| AC grid frequency/range | 50/60Hz;±5Hz | 50/60Hz;±5Hz | 50/60Hz;±5Hz | 50/60Hz;±5Hz |
| Power Factor | 1 | 1 | 1 | 1 |
| Displacement power factor configurable | 0.8leading-0.8lagging | 0.8leading-0.8lagging | 0.8leading-0.8lagging | 0.8leading-0.8lagging |
| THDI | <3% | <3% | <3% | <3% |
| AC connection | 3/N/PE,3W+PE(Opt) | 3/N/PE,3W+PE(Opt) | 3/N/PE,3W+PE(Opt) | 3/N/PE,3W+PE(Opt) |
| > Efficiency — | | | | |
| Maximum Efficiency | 98% | 98% | 98% | 98% |
| Euro Efficiency | 97.5% | 97.5% | 97.5% | 97.5% |
| MPPT Efficiency | 99.5% | 99.5% | 99.5% | 99.5% |
| > Protection — | | | | |
| DC reverse polarity protection | yes | yes | yes | yes |
| DC switch for each MPPT | yes | yes | yes | yes |
| Output over current protection | yes | yes | yes | yes |
| Output overvoltage protection-varistor | yes | yes | yes | yes |
| Ground fault monitoring | yes | yes | yes | yes |
| Grid monitoring | yes | yes | yes | yes |
| Integrated all-pole sensitive leakage current monitoring unit | yes | yes | yes | yes |

| General Data | | | | |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Dimension(W/H/D) | 490*740*235mm | 490*740*235mm | 570*740*235mm | 570*740*235mm |
| Weight | 41KG | 41KG | 60KG | 60KG |
| Operating Temperature Range | -25°C ... +60°C | -25°C ... +60°C | -25°C ... +60°C | -25°C ... +60°C |
| Noise Emission(typical) | ≤55dB(A) | ≤55dB(A) | ≤55dB(A) | ≤55dB(A) |
| Altitude | 2000m without derating | 2000m without derating | 2000m without derating | 2000m without derating |
| Self-Consumption(night) | <0.5W | <0.5W | <0.5W | <0.5W |
| Topology | Transformerless | Transformerless | Transformerless | Transformerless |
| Cooling concept | Smart cooling | Smart cooling | Smart cooling | Smart cooling |
| Environmental Protection Rating | IP65 | IP65 | IP65 | IP65 |
| Relative Humidity | 0~100% | 0~100% | 0~100% | 0~100% |
| Features | | | | |
| DC connection | H4/MC4(opt) | H4/MC4(opt) | H4/MC4(opt) | H4/MC4(opt) |
| AC connection | Screw terminal | Screw terminal | Screw terminal | Screw terminal |
| Display | LCD | LCD | LCD | LCD |
| Interface:RS232/RS485/ Bluetooth/RF/ WiFi/Zigbee | yes/yes/opt/opt/ opt/opt | yes/yes/opt/opt/ opt/opt | yes/yes/opt/opt/ opt/opt | yes/yes/opt/opt/ opt/opt |
| Warranty: 5 years/10 years | yes/opt | yes/opt | yes/opt | yes/opt |
| Certificates and Approvals | | | | |
| DE-AR-N4105、CEI 0-21、CE、VDE0126-1-1、IEC 62109、RD 1663/2000、G59/2、EN50438、AS4777、AS/NZS 3100、CE、VDE-AR-N4105、PEA、MEA、G59 | | | | |