









SOFAR 10k~20kTL

10000/15000/17000/20000

Three-Phase Dual-MPPT

-  Super large 4-inch LCD
-  Max. efficiency up to 98.2%
-  Built-in DRM port and logic
-  Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)
-  I-V curve scanning function
-  Built-in SPD, over / under pressure, over current, over temperature, island and other multiple protections

| Datasheet | SOFAR 10000TL | SOFAR 15000TL | SOFAR 17000TL | SOFAR 20000TL |
|---|---|------------------|------------------|------------------|
| Input (DC) | | | | |
| Recommended Max. PV input power | 13300Wp | 19950Wp | 22610Wp | 26600Wp |
| Max DC power for single MPPT | 6750W | 10500W | 10500W | 12000W |
| Number of MPP trackers | 2 | | | |
| Number for DC inputs | 2 for each MPPT | | | |
| Max. input voltage | 1000V | | | |
| Start-up voltage | 350V | | | |
| Rated input voltage | 600V | | | |
| MPPT operating voltage range | 250V-960V | | | |
| Full power MPPT voltage range | 350V-850V | 370V-850V | 420V-850V | 430V-850V |
| Max. input current per MPPT | 15A/15A | 21A/21A | 21A/21A | 24A/24A |
| Maximum DC input short circuit current per MPPT | 20A | 27A | 27A | 30A |
| Output (AC) | | | | |
| Rated power | 10000W | 15000W | 17000W | 20000W |
| Max. AC power | 10000VA | 15000VA | 17000VA | 20000VA |
| Max. Output current | 15A | 22A | 25A | 29A |
| Nominal grid voltage | 3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac | | | |
| Grid voltage range | 310Vac-480Vac (According to local standard) | | | |
| Nominal frequency | 50/60Hz | | | |
| Grid Frequency range | 45Hz-55Hz/54Hz-66Hz (According to local standard) | | | |
| Active power adjustable range | 0~100% | | | |
| THDi | <3% | | | |
| Power factor | >0.99 (adjustable +/-0.8) | | | |
| Performance | | | | |
| Max efficiency | 98.2% | 98.2% | 98.2% | 98.2% |
| European weighted efficiency | 97.6% | 97.9% | 97.9% | 98.0% |
| Self-consumption at night | <1W | | | |
| MPPT efficiency | >99.9% | | | |
| Protection | | | | |
| DC reverse polarity protection | Yes | | | |
| DC switch | Yes | | | |
| Protection class/overvoltage category | I/III | | | |
| Safety protection | Anti islanding, RCMU, Ground fault monitoring | | | |
| ARPC | Anti reverse power controller (optional) | | | |
| Input/output SPD (II) | Optional | | | |
| Communication | | | | |
| Power management unit | According to certification and request | | | |
| Standard communication mode | RS485, Wifi/Ethernet/GPRS (optional), SD card, Multi-function relay | | | |
| Operation data storage | 25 years | | | |
| General Data | | | | |
| Ambient temperature range | -25°C ~ +60°C | | | |
| Topology | Transformer-less | | | |
| Degree of protection | IP65 | | | |
| Allowable relative humidity range | 0~100% | | | |
| Max. operating altitude | 2000m | | | |
| Noise | <45dB | | | |
| Weight | 45kg | 45kg | 48kg | 48kg |
| Cooling | Natural | | | |
| Dimension | 709*492*246mm | | | |
| Display | LCD display | | | |
| Warranty | 5 years/ 7 years/ 10 years | | | |
| Standard | | | | |
| EMC | EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4 | | | |
| Safety standards | IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30), IEC60255 | | | |
| Grid standards | AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, EN50549, G83/G59, C10/11, Rd1699, UTE C15-712-1, EN50530 | | | |