



SOFAR 3.3K~12KTL-X

3300/4400/5000/5500/6600/8800/11000/12000



Three-Phase Dual-MPPT

- Integrated with DC switch
- 98.3%** Max. efficiency up to 98.3%
- 4"** Super large 4-inch LCD
- DRM** Built-in DRM port and logic
- Smart monitoring, RS485, Wifi/Ethernet/GPRS (optional)
- Over / under voltage, over current, over temperature, Anti-islanding and other multiple protections

Datasheet

| | SOFAR [*] 3.3KTL-X | SOFAR 4.4KTL-X | SOFAR [*] 5KTL-X (Australia) | SOFAR 5.5KTL-X | SOFAR 6.6KTL-X | SOFAR 8.8KTL-X | SOFAR 11KTL-X | SOFAR 12KTL-X |
|---|---|-------------------|---|-------------------|-------------------|-------------------|------------------|------------------|
| Input (DC) | | | | | | | | |
| Recommended Max. PV input power | 4390Wp | 5860Wp | 6650Wp | 7320Wp | 8780Wp | 11710Wp | 14630Wp | 15960Wp |
| Max DC power for single MPPT | 3550W | 4500W | 5700W | 5700W | 6250W | 6200W | 6200W | 6850W |
| Number of MPP trackers | 2 | | | | | | | |
| Number of DC inputs | 1 for each MPPT | | | | | | | |
| Max. Input voltage | 1000V | | | | | | | |
| Start-up voltage | 200V | | | | | | | |
| Rated input voltage | 600V | | | | | | | |
| MPPT operating voltage range | 160-960V | | | | | | | |
| Full power MPPT voltage range | 160V-850V | 190V-850V | 240V-850V | 240V-850V | 290V-850V | 380V-850V | 480V-850V | 575V-850V |
| Max. Input current per MPPT | 11A/11A | | | | | | | |
| Maximum DC input short circuit current per MPPT | 14A | | | | | | | |
| Output (AC) | | | | | | | | |
| Rated power | 3000W | 4000W | 5000W | 5000W | 6000W | 8000W | 10000W | 12000W |
| Max. AC power | 3300VA | 4400VA | 5000VA | 5500VA | 6600VA | 8800VA | 11000VA | 13200VA |
| Max. Output current | 4.8A | 6.4A | 8.0A | 8.0A | 9.6A | 12.8A | 15.9A | 19.1A |
| Nominal grid voltage | 3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac | | | | | | | |
| Grid voltage range | 310Vac-480Vac (According to local standard) | | | | | | | |
| Nominal frequency | 50Hz/60Hz | | | | | | | |
| Grid frequency range | 45Hz-55Hz/54Hz-66Hz (According to local standard) | | | | | | | |
| Active power adjustable range | 0-100% | | | | | | | |
| THDi | <3% | | | | | | | |
| Power factor | 1 default (adjustable +/- 0.8) | | | | | | | |
| Power limit export | Zero export or adjustable power limit export | | | | | | | |
| Performance | | | | | | | | |
| Max efficiency | 98.0% | 98.0% | 98.0% | 98.0% | 98.0% | 98.3% | 98.3% | 98.3% |
| European weighted efficiency | 97.5% | 97.5% | 97.5% | 97.5% | 97.5% | 98.0% | 98.0% | 98.0% |
| Self-consumption at night | <1W | | | | | | | |
| MPPT efficiency | >99.9% | | | | | | | |
| Protection | | | | | | | | |
| DC reverse polarity protection | Yes | | | | | | | |
| DC switch | Yes | | | | | | | |
| Safety protection | Anti islanding, RCMU, Ground fault monitoring | | | | | | | |
| ARPC | Anti reverse power controller(optional) | | | | | | | |
| Communication | | | | | | | | |
| Power management unit | According to certification and request | | | | | | | |
| Standard communication mode | RS485, Wifi/Ethernet/GPRS(optional), SD card | | | | | | | |
| Operation data storage | 25 years | | | | | | | |
| General Data | | | | | | | | |
| Ambient temperature range | -25°C~+60°C | | | | | | | |
| Topology | Transformerless | | | | | | | |
| Degree of protection | IP65 | | | | | | | |
| Allowable relative humidity range | 0-100% | | | | | | | |
| Max. Operating altitude | 2000m | | | | | | | |
| Noise | <29dB | | | | | | | |
| Weight | 21kg | 21kg | 21kg | 21kg | 21kg | 22kg | 22kg | 22kg |
| Cooling | Natural | | | | | | | |
| Dimension | 457*452*202mm | | | | | | | |
| 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, EN50549, G83, Rd1699, UTE C15-712-1, EN50530, NB/T32004 | | | | | | | |

The models marked with * * * should be available only for some designated countries.