

SOFAR

3.3K~12KTLX-G3

3300/4400/5000/5500/6600/8800/10000/11000/12000



Three-Phase

Dual-MPPT



Remote operation



Intelligent string level monitorin



Maximum DC input voltage 1100V



Low start-up voltage, wide MPPT voltage



Maximum efficiency 98.6%



Type II SPD for both DC and AC



Natural cooling, no fans, low noise

Datasheet

SOFAR 3.3KTLX-G3    SOFAR 4.4KTLX-G3    SOFAR 5KTLX-G3-A    SOFAR 5.5KTLX-G3    SOFAR 6.6KTLX-G3    SOFAR 8.8KTLX-G3-A    SOFAR 8.8KTLX-G3    SOFAR 10KTLX-G3-A    SOFAR 11KTLX-G3-A    SOFAR 11KTLX-G3    SOFAR 12KTLX-G3

Input (DC)

|                                           |             |           |           |        |           |           |             |           |         |             |           |
|-------------------------------------------|-------------|-----------|-----------|--------|-----------|-----------|-------------|-----------|---------|-------------|-----------|
| Recommended Max. PV input power           | 4500Wp      | 6000Wp    | 7500Wp    | 7500Wp | 9000Wp    | 12000Wp   | 12000Wp     | 15000Wp   | 15000Wp | 15000Wp     | 18000Wp   |
| Number of MPP trackers                    | 2           |           |           |        |           |           |             |           |         |             |           |
| Number of DC inputs                       | 1/1         |           |           |        |           | 1/2       | 1/1         | 1/2       | 1/1     | 1/2         |           |
| Max. input voltage                        | 1100V       |           |           |        |           |           |             |           |         |             |           |
| Start-up voltage                          | 160V        |           |           |        |           |           |             |           |         |             |           |
| Rated input voltage                       | 650V        |           |           |        |           |           |             |           |         |             |           |
| MPPT operating voltage range              | 140V-1000V  |           |           |        |           |           |             |           |         |             |           |
| Full power MPPT voltage range             | 160V-850V   | 190V-850V | 240V-850V |        | 290V-850V | 380V-850V |             | 420V-850V |         |             | 460V-850V |
| Max. input MPPT current                   | 15A/15A     |           |           |        |           | 15A/30A   | 15A/15A     | 15A/30A   |         | 15A/15A     | 15A/30A   |
| Max. input short circuit current per MPPT | 22.5A/22.5A |           |           |        |           | 22.5A/45A | 22.5A/22.5A | 22.5A/45A |         | 22.5A/22.5A | 22.5A/45A |

Output (AC)

|                               |                                                   |        |        |        |        |        |  |         |         |         |
|-------------------------------|---------------------------------------------------|--------|--------|--------|--------|--------|--|---------|---------|---------|
| Rated power                   | 3000W                                             | 4000W  | 5000W  |        | 6000W  | 8000W  |  | 10000W  |         | 12000W  |
| Max. AC power                 | 3300VA                                            | 4400VA | 5000VA | 5500VA | 6600VA | 8800VA |  | 10000VA | 11000VA | 13200VA |
| Max. Output current           | 5A                                                | 6.7A   | 7.6A   | 8.3A   | 10A    | 13.3A  |  | 15.2A   | 16.7A   | 20A     |
| Nominal grid voltage          | 3/N/PE, 220V/380Vac, 230V/400Vac                  |        |        |        |        |        |  |         |         |         |
| 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                  | 1 default (adjustable +/-0.8)                     |        |        |        |        |        |  |         |         |         |

Performance

|                     |        |  |  |  |  |        |  |  |  |  |  |
|---------------------|--------|--|--|--|--|--------|--|--|--|--|--|
| Max efficiency      | 98.40% |  |  |  |  | 98.50% |  |  |  |  |  |
| European efficiency | 97.50% |  |  |  |  | 98.00% |  |  |  |  |  |

Protection

|                                  |                                            |  |  |  |  |  |  |  |  |  |  |
|----------------------------------|--------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| DC reverse polarity protection   | Yes                                        |  |  |  |  |  |  |  |  |  |  |
| Anti-islanding protection        | Yes                                        |  |  |  |  |  |  |  |  |  |  |
| Leakage current protection       | Yes                                        |  |  |  |  |  |  |  |  |  |  |
| Ground fault monitoring          | Yes                                        |  |  |  |  |  |  |  |  |  |  |
| PV-array string fault monitoring | Yes                                        |  |  |  |  |  |  |  |  |  |  |
| Anti reverse power function      | Yes                                        |  |  |  |  |  |  |  |  |  |  |
| DC switch                        | Yes                                        |  |  |  |  |  |  |  |  |  |  |
| AFCI protection                  | Optional                                   |  |  |  |  |  |  |  |  |  |  |
| Input / output SPD               | PV: type II standard, AC: type II standard |  |  |  |  |  |  |  |  |  |  |

Communication

|                             |                                                   |  |  |  |  |  |  |  |  |  |  |
|-----------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| Standard communication mode | RS485/ USB/ Bluetooth, Optional: WiFi / GPRS / 4G |  |  |  |  |  |  |  |  |  |  |
|-----------------------------|---------------------------------------------------|--|--|--|--|--|--|--|--|--|--|

General Data

|                                   |                                      |  |      |
|-----------------------------------|--------------------------------------|--|------|
| Ambient temperature range         | -30°C ~ +60°C                        |  |      |
| Self-consumption at night         | < 1W                                 |  |      |
| Topology                          | Transformerless                      |  |      |
| Degree of protection              | IP65                                 |  |      |
| Allowable relative humidity range | 0~100%                               |  |      |
| Max. Operating altitude           | 4000m                                |  |      |
| Noise                             | ≤40dB                                |  |      |
| Weight                            | 17kg                                 |  | 18kg |
| Cooling                           | Natural                              |  |      |
| Dimension                         | 430*385*182mm                        |  |      |
| Display                           | LCD&Bluetooth + APP                  |  |      |
| Standard warranty                 | 5 years, Optional: 7 years/ 10 years |  |      |

Standard

|                  |                                                                                                                                |  |  |  |  |  |  |  |  |  |  |
|------------------|--------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|
| EMC              | EN61000-3-2, EN61000-3-3,EN61000-3-11, EN61000-3-12,EN61000-6-1, EN61000-6-3                                                   |  |  |  |  |  |  |  |  |  |  |
| Safety standards | IEC62109-1/2, IEC62116, IEC61727, IEC61683, IEC60068(1,2,14,30)                                                                |  |  |  |  |  |  |  |  |  |  |
| Grid standards   | AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G98/G99, EN50530, NB/T32004 |  |  |  |  |  |  |  |  |  |  |