

SOFAR 100-125KTLX-G4

100 / 110 / 125 kW

Three-phase string inverter



High yield

- Max. efficiency up to 98.6%
- 10 MPPTs with 170% DC input overload capability



Safety & Protection

- IP66 design for outdoor
- Type II SPD for both DC and AC side



Smart O&M

- I-V curve scanning
- Supports Modbus Communication, external Wi-Fi

Model	SOFAR 100KTLX-G4	SOFAR 110KTLX-G4	SOFAR 125KTLX-G4	SOFAR 125KTLX-G4-A
Input (DC)				
Recommended max. PV input power	170000 Wp	187000 Wp	212500 Wp	212500 Wp
Max. input voltage	1100 V			
Rated input voltage	625 V			
Start-up voltage	200 V			
MPPT operating voltage range	180-1000 V			
Number of MPP trackers	10			
Number of DC inputs	20			
Max. input MPPT current	10×40 A			
Max. input short circuit current	10×50 A			
Output (AC)				
Rated output power	100 kW	100 kW	110 kW	125 kW
Max. apparent power	100 kVA @45°C / 90 kVA @50°C	110 kVA @45°C / 100 kVA @50°C	125 kVA @45°C / 110 kVA @50°C	125 kVA @45°C / 110 kVA @50°C
Max. output current	152 A @380 V / 145 A @400 V / 139.2 A @415 V	167.2 A @380 V / 159.5 A @400 V / 153.1 A @415 V	190A @380 V / 181.2 A @400 V / 174 A @415 V	190 A @ 380 V / 181.2 A @400 V / 174 A @415 V
Rated output voltage	3 / N / PE, 380 / 400 / 415 V			
Output voltage range	310-480 Vac			
Rated output frequency	50 / 60 Hz			
Output frequency range	45 Hz-55 Hz / 55 Hz-65 Hz			
Active power adjustable range	0-100%			
THDi	< 1% (@100%P)			
Power factor	0.8 leading - 0.8 lagging			
Efficiency				
Max. efficiency	98.6%			
European efficiency	98.3%			
Protection				
DC reverse polarity protection	Yes			
Anti-islanding protection	Yes			
Leakage current protection	Yes			
Ground fault monitoring	Yes			
PV-array string fault monitoring	Yes			
DC switch	Yes			
AFCI	Yes			
PID recovery	Yes			
SPD	PV: Type II, AC: Type II			
General Data				
Ambient temperature range	-30°C ~ +60°C			
Topology	Transformerless			
Degree of protection	IP66			
Allowable relative humidity range	0-100%			
Max. operating altitude	4000 m (>3000 m derating)			
Cooling	Smart air cooling			
Dimension (W×H×D)	970×695×325 mm			
Weight	75 kg			
Display	LCD & Bluetooth + APP			
Communication	RS485 / Wi-Fi			
Standard	EN/IEC 62109-1/2, EN/IEC 61000-6-2/-4, IEC 61000-3-4/-5, EN 50530, EN 50549, IEC62116, IEC 61727, IEC 61683, IEC 60068-2-1/2/14/30, VDE V 0126-1-1, UTE C15-712-1, VDE-AR-N 4105/4110, NTS 631, UNE 217001, UNE 217002, G99, C10/11			

*All specifications are subject to change without notice.