

SOFAR 100K~125KTLX-G4 (ESS)

100 / 110 / 125 kW

THREE-PHASE TEN MPPTS, ESS READY



Product advantages

- Max. efficiency up to 98.6%
- IP66 & C5 design for outdoor
- Maximum 10 MPPTs, 40A per MPPT
- Type I + II SPD for DC
- I-V curve scanning function
- Battery connector for ESS, DC coupled



Model	SOFAR 100KTLX-G4 (ESS)		SOFAR 110KTLX-G4 (ESS)	SOFAR 125KTLX-G4 (ESS)
Input (DC)				
Max. input voltage	1100V			
Rated input voltage	625V			
Start-up voltage	200V			
MPPT operating voltage range	180V-1000V			
Number of MPP trackers	10			
Number for DC inputs	20			
Max. input MPPT current	10*40A			
Max. input short circuit current	10*50A			
AC Output(On Grid)				
Rated output power	100kW	100kW	110kW	
Max. apparent power	100kVA@45°C / 90kVA@50°C	110kVA@45°C / 100kVA@50°C	125kVA@45°C / 110kVA@50°C	
Max. output current	152A@380V / 145A@400V / 139.2A@415V	167.2A@380V / 159.5A@400V / 153.1A@415V		190A@380V / 181.2A@400V / 174A@415V
Rated output voltage	3/N/PE, 380V / 400V / 415V			
Output voltage range	310-480V			
Rated output frequency	50/60Hz			
Output frequency range	45-55Hz/55-65Hz			
Active power adjustable range	0-100%			
THDi	<1%(@100%P)			
Power factor	1 (+/-0.8 adjustable)			
ES Parameter				
DC voltage range	510-980V			
Max. charge / discharge current	100A / 100A			
Max. power(charge / discharge)	62.5kW / 62.5kW			
BMS communication	CAN			
AC Output(Off Grid)				
Rated output power	100kW	100kW	110kW	
Max. apparent power	100kVA@45°C / 90kVA@50°C	110kVA@45°C / 100kVA@50°C	125kVA@45°C / 110kVA@50°C	
Max. output current	152A@380V / 145A@400V / 139.2A@415V	167.2A@380V / 159.5A@400V / 153.1A@415V		190A@380V / 181.2A@400V / 174A@415V
Rated output voltage	3/N/PE, 380V / 400V / 415V			
Rated output frequency	50/60Hz			
THDV	<3%(Linear Load)			
Efficiency (PV)				
Max. efficiency	98.60%			
European efficiency	98.30%			
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			
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	4000m(>3000m derating)			
Cooling	Smart air cooling			
Dimension(W×H×D)	970×695×325mm			
Weight	75kg			
Display	LCD & Bluetooth +APP			
Communication	RS485 / WiFi			
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, CEI 0-21/16, NTS 631, UNE 217001, UNE 217002			

*All specifications are subject to change without notice.