

# SOFAR 100K~125KTLX-G4

100 / 110 / 125 kW

THREE-PHASE TEN MPPTS, ESS READY

Preliminary



## 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	SOFAR 110KTLX-G4	SOFAR 125KTLX-G4
<b>Input (DC)</b>			
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	
<b>AC Output(On Grid)</b>			
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)		
<b>ESS Parameter</b>			
DC voltage range	200~1100V		
Max. charge / discharge current	100A / 100A		
Max. power(charge / discharge)	62.5kW / 62.5kW		
BMS communication	CAN		
<b>AC Output(Off Grid)</b>			
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)		
<b>Efficiency (PV)</b>			
Max. efficiency	98.60%		
European efficiency	98.30%		
<b>Protection</b>			
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 I + II, AC: type II		
<b>General Data</b>			
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.