

SOFAR 80-125KTLX-G4-ESS

80 / 99 / 100 / 110 / 125 kW

THREE-PHASE NINE MPPTS

PRELIMINARY



Product advantages

- Max. efficiency up to 98.6%
- IP66 design for outdoor
- Maximum 9 MPPTs with 150%+ DC overload
- I-V curve scanning function
- Supports Modbus Communication, external Wi-Fi
- Battery connector for ESS, DC coupled



Model	SOFAR 80KTLX-G4-ESS	SOFAR 99KTLX-G4-ESS	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	160V-1000V				
Number of MPP trackers	9				
Number for DC inputs	18				
Max. input MPPT current	9×40A				
Max. input short circuit current	9×50A				
Output (AC)					
Rated output power	80kW	99.99kW	100kW	110kW	125kW
Max. output active power(cos θ = 1)	80kW	99.99kW	110kW	121kW	125kW
Max. output apparent power	88kVA	99.99kVA	110kVA	121kVA	125kVA
Max. output current	133.7A@380V / 127.0A@400V / 122.4A@415V	151.9A@380V / 144.3A@400V / 139.1A@415V	167.1A@380V / 158.7A@400V / 153.0A@415V	183.8A@380V / 174.6A@400V / 168.3A@415V	190A@380V / 181.2A@400V / 174A@415V
Rated output voltage	3/N/PE, 380V / 400V / 415V				
Output voltage range	310-480Vac				
Rated output frequency	50 / 60Hz				
Output frequency range	45Hz-55Hz / 55Hz-65Hz				
Active power adjustable range	0-100%				
THDi	<1% (@100%P)				
Power factor	0.8 leading - 0.8 lagging				
Max. Asymmetric power	50%				
Output(Off-grid)					
Rated output voltage	3N--PE , 380 / 400 / 415 Va.c.				
Rated output frequency	50 / 60Hz				
Rated output power	62.5kW				
Rated output current	94.9A				
Rated apparent power	62.5kVA				
Max. apparent power	62.5kVA				
Max. output current	94.9A				
Peak output apparent power	200%, 2s				
THDv(@ linear load)	3%				
Switching time	2s, with ATS				
Asymmetric load	100%				
Input (BAT)					
Battery type	CBS5000				
Numbers of battery	1-4				
Numers of packs per battery	2-10				
Max.Charge / discharge power	62.5kW				
DC voltage range	550-980V				
Max. charge / discharge current	100A / 100A				
BMS communication	RJ45, CAN*2 + DO*1				
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				
PID recovery	Yes				
AFCI	Yes				
SPD	PV: type I+ II, AC: type II				
General Data					
Ambient temperature range	-30°C to +60°C				
Topology	Transformerless				
Degree of protection	IP66				
Allowable relative humidity range	0-100%				
Max. operating altitude	4000m (>3000m derating)				
Weight	75kg				
Cooling	Smart air cooling				
Dimension(W × H × D)	970 × 695 × 325mm				
Display	LCD & Bluetooth+APP				
Communication	Ethernet / RS485 / Wi-Fi /4G				
ATS communication	DIO *2				

*All specifications are subject to change without notice.