SOFAR

100K~110KTL

100 / 110 kW

THREE-PHASE

- Max. efficiency up to 98.75%
- IP66 design for outdoor
- Type II SPD for both DC and AC side
- Supports Modbus Communication, external WiFi

TEN TO TWELVE MPPTS

- Remote firmware upgrade
- I-V curve scanning function
- Maximum 12 MPP trackers with 1.5 times DC overload
- AC / DC dual power supply redundant design, 24-hour status monitoring

Datasheet	SOFAR 100KTL	SOFAR 110KTL
Input (DC)		
Max. input voltage (V)	1100	
Rated input voltage (V)	625	
Start-up voltage (V)	200	
MPPT operating voltage range (V)	180-1000	
Full power MPPT voltage range (V)	500-850	
Number of MPP trackers	10	
Number for DC inputs	20	
Max. input current per MPPT (A)	26	
Max. input short circuit current per MPPT (A)	40	
Output (AC)		
Rated power (kW)	100	110
Max. AC power (kVA)	110	121
Max. output current (A)	160	175
Rated grid voltage	3 / N / PE, 230 / 400 Vac	
Grid voltage range	310 - 480 Vac	
Rated grid frequency	50 / 60 Hz	
Grid frequency range	45 Hz-55 Hz / 55 Hz-65 Hz (according to local standard)	
Active power adjustable range	0~100%	
THDi	< 3%	
Power factor	1 default (adjustable +/-0.8)	
Performance		
Max. efficiency	98.70%	98.75%
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	
Zero voltage ride through	Yes	
DC switch	Optional	
Anti-PID protection	Optional	
Input / output SPD	PV: type II standard, AC: type II standard	
Communication		
Communication	RS485/Bluetooth, Optional: WiFi/Ethernet	
General Data		
Ambient temperature range	-30℃~+60℃	
Topology	Transformerless	
Degree of protection	IP66	
Allowable relative humidity range	0~100%	
Max. operating altitude	4000 m	
Weight (kg)	90	
Cooling	Smart forced air cooling	
Dimension (mm)	995.5*663.5*368	
Display	LCD, App via Bluetooth	
Standard		
EMC	EN 61000-6-2, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12	
Safety standards	IEC 62109-1 / 2, IEC62116, IEC 61727, IEC 61683, IEC 60068 (1, 2, 14, 30)	
Grid standards	VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21 / CEI 0-16, UNE 206 007-1, EN 50549, G99, EN 50530	