SOFAR SOLAR

SOFAR 80K~136KTL

80KTL/100KTL/110KTL/100KTL-HV/125KTL-HV/136KTL-HV

Three-Phase

Eight to twelve MPPTs

- Max. efficiency up to 99%
- Outdoor IP66 protection level
- Type II SPD for both DC and AC
- Support Modbus communication, external Wifi/ PLC/ GPRS (optional)
- AC / DC dual power supply redundant design, 24-hour status monitoring
- Remote firmware upgrade
- I-V curve scanning function
- Maximum 12 MPP trackers with 1.5* DC overload

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Datasheet	SOFAR 80KTL	SOFAR 100KTL	SOFAR 110KTL	SOFAR 100KTL-HV	SOFAR 125KTL-HV	SOFAR 136KTL-HV
Input (DC)						
Max. input voltage	1100V					
Rated input voltage	625V	625V	625V	725V	725V	785V
Start-up voltage	200V					
MPPT operating voltage range	180V-1000V					
Full power MPPT voltage range	500V-850V	500V-850V	500V-850V	550V-850V	550V-850V	550V-850V
Number of MPP trackers	8	10	10	10	10	12
Number for DC inputs	16	20	20	20	20	24
Max. input current per MPPT	26A					
Max. input short circuit current per MPPT	40A					
Output (AC)						
Rated power	80kW	100kW	110kW	100kW	125kW	136kW
Max. AC power	88kVA	110kVA	121kVA	110kVA	137kVA	150kVA
Max. output current	128A	160A	175A	128A	160A	160A
Nominal grid voltage	3/N/PE, 230V/400Vac, 220V/380Vac			3/PE, 500Vac	3/PE, 500Vac	3/PE, 540Vac
Grid voltage range	310Vac-480Vac	310Vac-480Vac	310Vac-480Vac	400Vac-575Vac	400Vac-575Vac	432Vac-621Vac
Nominal frequency	50/60Hz					
Grid frequency range	45Hz-55Hz/54Hz-66Hz (According to local standard)					
Active power adjustable range	0~100%					
THDi	<3%					
Power factor	1default (adjustable+/-0. 8)					
Performance						
Max. Efficiency	98.60%	98.70%	98.75%	98.80%	99.00%	99.00%
European weighted efficiency	98.20%	98.30%	98.30%	98.50%	98.50%	98.51%
MPPT efficiency	>99.9%					
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	Yes					
Anti-PID protection	Optional					
AFCI	Optional					
Protection class/ Overvoltage category	I/III					
Input/ Output SPD	PV: type II standard, AC: type II standard					
Communication						
Power management unit	According to certification and request					
Communication	RS485, Optional: WiFi /GPRS /PLC					
Operation data storage	25 years					
General Data						
Ambient temperature range	-30℃~+60℃					
Topology	Transformerless					
Degree of protection	IP66					
Allowable relative humidity range	0~100%					
Max. operating altitude	4000m					
Weight	88kg	90kg	90kg	90kg	90kg	92kg
Cooling	Smart forced air cooling					
Dimension	995.5*663.5*368mm					
Display	LCD&Bluetooth+APP					
Warranty	5 years/ 7 years/ 10 years					
Standard						
EMC	EN 61000-6-2, EN 61000-6-4					
Safety standard	IEC62109-1/2, IEC62116, IEC61727, IEC-61683, IEC60068(1,2,14,30)					
Grid standard	AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G99, EN50530, NB/T32004					