



SOFAR 80K~136KTL

80KTL/100KTL/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

Datasheet

SOFAR 80KTL

SOFAR 100KTL

SOFAR 100KTL-HV

SOFAR 125KTL-HV

SOFAR 136KTL-HV

Input (DC)

Max. input voltage			1100V		
Rated input voltage	600V	600V	680V	680V	680V
Start-up voltage			200V		
MPPT operating voltage range			180V-1000V		
Full power MPPT voltage range	500V-850V	500V-850V	550V-850V	550V-850V	550V-850V
Number of MPP trackers	8	10	10	10	12
Number for DC inputs	16	20	20	20	24
Max. input current per MPPT			26A		
Max. input short circuit current per MPPT			40A		

Output (AC)

Rated power	80kW	100kW	100kW	125kW	136kW
Max. AC power	88kVA	110kVA	110kVA	137kVA	150kVA
Max. output current	128A	160A	128A	160A	160A
Nominal grid voltage	3/N/PE, 230V/400Vac, 220V/380Vac		3/PE, 288V/500Vac	3/PE, 288V/500Vac	3/PE, 311V/540Vac
Grid voltage range	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			1 default (adjustable +/-0.8)		

Performance

Max. Efficiency	98.60%	98.70%	98.80%	99.00%	99.00%
European weighted efficiency	98.20%	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		
Noise			≤60 dB		
Weight	72kg	84kg	72kg	84kg	85kg
Cooling			Smart forced air cooling		
Dimension			1051*660*340mm		
Display			LCD&Bluetooth+APP		
Warranty			5 years/ 7 years/ 10 years		

Standard

EMC	EN 61000-6-2, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12				
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				