



# 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
<b>Input (DC)</b>					
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		
<b>Output (AC)</b>					
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)		
<b>Performance</b>					
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%		
<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		
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		
<b>Communication</b>					
Power management unit			According to certification and request		
Communication			RS485, Optional: WiFi /GPRS /PLC		
Operation data storage			25 years		
<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		
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		
<b>Standard</b>					
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				