

SOFAR

25K~50KTLX-G3

25000 / 30000 / 33000 / 36000 / 40000 / 45000 / 50000 W

THREE-PHASE

- Up to 4 MPPTs with DC overload capability (up to 150%)
- Type II SPD for both DC and AC side
- Low start-up voltage, wide MPPT voltage range
- I-V curve scanning function
- Intelligent monitoring, remote operation

THREE TO FOUR MPPTS

- Max. efficiency up to 98.90%
- Prolonged AC overload capability (110%)
- Compatible with 500 W+ modules

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Datasheet	SOFAR 25KTLX-G3	SOFAR 30KTLX-G3	SOFAR 30KTLX-G3-A	SOFAR 33KTLX-G3	SOFAR 36KTLX-G3	SOFAR 40KTLX-G3	SOFAR 45KTLX-G3	SOFAR 50KTLX-G3	SOFAR 40KTLX-G3-HV	SOFAR 50KTLX-G3-HV
Input (DC)										
Recommended max. PV input power (Wp)	37500	45000	45000	49500	54000	60000	67500	75000	60000	75000
Max. DC power for single MPPT(W)	25000									
Number of MPP trackers	3					4			3	4
Number of DC inputs	2 for each MPPT									
Max. input voltage (V)	1100									
Start-up voltage (V)	200									
Rated input voltage (V)	620								725	725
MPPT operating voltage range (V)	180-1000									
Full power MPPT voltage range (V)	480–850			510-850	540–850	480–850	510–850	540–850	620–850	650–850
Max. input MPPT current (A)	3*40					4*40			3*40	4*40
Max. input short circuit current per MPPT (A)	3*50					4*50			3*50	4*50
Output (AC)										
Rated power (W)	25000	30000	29900	33000	36000	40000	45000	50000	40000	50000
Max. AC power (VA)	28000	34000	29900	37000	40000	44000	50000	55000	44000	55000
Max. output current (A)	42.4	51.5	45.3	56.0	60.6	66.7	75.8	83.3	53	66.2
Rated grid voltage	3 / N / PE, 220 V / 380 Vac, 230 V / 400 Vac								3/N/PE or 3/PE, 277/480 Vac	
Grid voltage range	310 - 480 Vac (according to local standard)								422 - 528 VaC (according to local standard)	
Rated grid frequency	50 Hz / 60 Hz									
Grid frequency range	45 Hz–55 Hz / 54 Hz–66 Hz (according to local standard)									
Active power adjustable range	0~100%									
THDi	< 3%									
Power factor	1 default (adjustable +/-0.8)									
Performance										
Max. efficiency	98.60%					98.80%				98.90%
European efficiency	98.20%									
Protection										
DC reverse polarity protection	Yes									
Anti-islanding protection	Yes									
Leakage current protection	Yes									
Ground fault monitoring	Yes									
PV-array string fault monitoring	Yes									
Feed-in limitation function	Yes									
DC switch	Yes									
Input / output SPD	PV: type II standard, AC: type II standard									
Communication										
Standard Communication mode	RS485/USB/Bluetooth Optional: WiFi/Ethernet/LTE									
General Data										
Ambient temperature range	-30℃~+60℃									
Self-consumption at night (W)	<3									
Topology	Transformerless									
Degree of protection	IP65									
Allowable relative humidity range	0~100%									
Max. operating altitude	4000 m									
Noise	< 60 dB									
Weight (kg)	36					37				
Cooling	Fan									
Dimension (mm)	585*480*220									
Display	LCD, App via Bluetooth									
Warranty	5 years, Optional: 7&10 years									
Standard										
EMC	EN 61000-6-1, EN 61000-6-2,EN 61000-6-3, EN 61000-6-4									
Safety standards	IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30), IEC 60255									
Grid standards	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, EN 50549, G98/G99, EN 50530, NB/T32004									