SOFAR
25K~50KTLX-G3

25K/30K/33K/36K/40K/45K/50K

Three-Phase

Three to Four MPPTs

- 1.5DC 3/4 MPP trackers with 1.5*DC overload
- SPD Type II SPD for both DC and AC side
- Lower start voltage, wide MPPT voltage range
- I-V Smart I/V curve scanning
- Smart monitoring, remote firmware upgrade
- 98.9% Max. efficiency up to 98.9%
- 110% Longtime 110% AC overload ability
- AFCI Optional AFCI protection
- Compatible with 500W+ PV modules
- PID Optional Anti-PID function

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	37500Wp	45000Wp	45000Wp	49500Wp	54000Wp	60000Wp	67500Wp	75000Wp	60000Wp	75000Wp
Max. DC power for single MPPT	20000Wp									
Number of MPP trackers	3	3	3	3	3	4	4	4	3	4
Number of DC inputs	6	6	6	6	6	8	8	8	6	8
Max. input voltage	1100V									
Start-up voltage	200V									
Rated input voltage	650V	650V	650V	650V	650V	650V	650V	650V	725V	725V
MPPT operating voltage range	180V-1000V									
Full power MPPT voltage range	480V-850V	480V-850V	480V-850V	510V-850V	540V-850V	480V-850V	510V-850V	540V-850V	620V-850V	650V-850V
Max. input MPPT current	90A(6*15A or 4*20A)						120A(8*15A or 6*20A)		90A(6*15A or 4*20A)	120A(8*15A or 6*20A)
Max. DC input short circuit current	135A(6*22.5A or 4*30A)						180A(8*22.5A or 6*30A)		135A(6*22.5A or 4*30A)	180A(8*22.5A or 6*30A)
Output (AC)										
Rated power	25000W	30000W	30000W	33000W	36000W	40000W	45000W	50000W	40000W	50000W
Max. AC power	28000VA	34000VA	34000VA	37000VA	40000VA	44000VA	49500VA	55000VA	44000VA	55000VA
Rated output current	37.9A	45.5A	45.5A	50.0A	54.5A	60.6A	68.2A	75.8A	48.1A	60.2A
Max. output current	42.4A	51.5A	51.5A	56A	60.6A	66.7A	75A	83.3A	53A	66.2A
Nominal grid voltage	3/N/PE, 220/380Vac, 230/400Vac, 240/415Vac								3/N/PE or 3/PE, 277/480Vac	
Grid voltage range	310Vac-480Vac (According to local standard)								422Vac-528Vac (According to local standard)	
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 (adjustable+/-0.8)									
Efficiency										
Max efficiency	98.60%	98.60%	98.60%	98.60%	98.60%	98.80%	98.80%	98.80%	98.90%	98.90%
European weighted efficiency	98.00%									
Protection										
DC reverse polarity protection	Yes									
Anti-islanding protection	Yes									
Leakage current protection	Yes									
Ground fault monitoring	Yes									
PV-array string fault monitoring	Yes									
Anti reverse power function	Yes									
DC switch	Yes									
AFCI protection	Optional									
Anti-PID function	Optional									
Input/ output SPD	PV:Type II standard, AC:Type II standard									
Communication										
Communication	RS485/USB/Bluetooth, Optional:WiFi /GPRS /4G /PLC									
General Data										
Ambient temperature range	-30℃~+60℃									
Self-consumption at night	<3W									
Topology	Transformerless									
Degree of protection	IP65									
Allowable relative humidity range	0~100%									
Max. operating altitude	4000m									
Noise	≤60dB									
Weight	36kg						37kg			
Cooling	Fan									
Dimension	585*480*220mm									
Display	LCD&Bluetooth +APP									
Standard warranty	5 years, Optional: 7 years/ 10 years									
Standard										
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61000-3-12									
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, EN50549, G98/G99, EN50530, NB/T32004									

The models marked with " * " should be available only for some designated countries.