



SOFAR 25K~50KTLX-G3

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

Three-Phase Three to Four MPPTs

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

Datasheet

Datasheet	SOFAR 25KTLX-G3	SOFAR 30KTLX-G3	SOFAR 30KTLX-G3-A	SOFAR 33KTLX-G3	SOFAR 34KTLX-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 MPPT 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	600V	600V	600V	600V	600V	650V	650V	650V	725V	725V
MPPT operating voltage range	180V~1020V									
Full power MPPT voltage range	480V~850V	480V~850V	480V~850V	510V~850V	540V~850V	480V~850V	540V~850V	540V~850V	620V~850V	650V~850V
Max. input MPPT current	90A(8*15A or 4*20A)					120A(8*15A or 4*20A)		90A(8*15A or 4*20A)		120A(8*15A or 4*20A)
Max. DC input short circuit current	135A(4*22.5A or 4*20A)					180A(8*22.5A or 4*20A)		135A(4*22.5A or 4*20A)		180A(8*22.5A or 4*20A)
Output (AC)										
Rated power	21900W	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	50.6A	54.5A	60.6A	68.2A	75.8A	48.1A	60.2A
Max. output current	42.6A	51.5A	51.5A	56A	60.6A	66.7A	75A	83.3A	53A	66.3A
Nominal grid voltage	370VPE, 220/380Vnc, 230/400Vnc, 240/415Vnc									
Grid voltage range	310Vnc~480Vnc (According to local standard)								420Vnc~520Vnc (According to local standard)	
Nominal frequency	50/60Hz									
Grid frequency range	45Hz~55Hz(50Hz~60Hz (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	98.60%									
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°C~+45°C				
Self-consumption at night						≤2W				
Topology						Transformerless				
Degree of protection						IP65				
Allowable relative humidity range						0~100%				
Max. operating altitude						4000m				
Noise						≤60dB				
Weight	34kg						37kg			
Cooling						Fan				
Dimension						560*480*220mm				
Display						LCD+Bluetooth + APP				
Standard warranty	3 years, Optional 7 years/10 years									
Standard										
EMC	EN 61000-6-2, EN 61000-6-3, EN 61000-3-11, EN 61800-3-12									
Safety standards	IEC 62109-1/2, IEC 62116, IEC 61737, IEC 61883, IEC 60364-7-714, IEC 60364-7-715, IEC 60364-7-716, IEC 60364-7-717, IEC 60364-7-718, IEC 60364-7-719, IEC 60364-7-720, IEC 60364-7-721, IEC 60364-7-722, IEC 60364-7-723, IEC 60364-7-724, IEC 60364-7-725, IEC 60364-7-726, IEC 60364-7-727, IEC 60364-7-728, IEC 60364-7-729, IEC 60364-7-730, IEC 60364-7-731, IEC 60364-7-732, IEC 60364-7-733, IEC 60364-7-734, IEC 60364-7-735, IEC 60364-7-736, IEC 60364-7-737, IEC 60364-7-738, IEC 60364-7-739, IEC 60364-7-740, IEC 60364-7-741, IEC 60364-7-742, IEC 60364-7-743, IEC 60364-7-744, IEC 60364-7-745, IEC 60364-7-746, IEC 60364-7-747, IEC 60364-7-748, IEC 60364-7-749, IEC 60364-7-750, IEC 60364-7-751, IEC 60364-7-752, IEC 60364-7-753, IEC 60364-7-754, IEC 60364-7-755, IEC 60364-7-756, IEC 60364-7-757, IEC 60364-7-758, IEC 60364-7-759, IEC 60364-7-760, IEC 60364-7-761, IEC 60364-7-762, IEC 60364-7-763, IEC 60364-7-764, IEC 60364-7-765, IEC 60364-7-766, IEC 60364-7-767, IEC 60364-7-768, IEC 60364-7-769, IEC 60364-7-770, IEC 60364-7-771, IEC 60364-7-772, IEC 60364-7-773, IEC 60364-7-774, IEC 60364-7-775, IEC 60364-7-776, IEC 60364-7-777, IEC 60364-7-778, IEC 60364-7-779, IEC 60364-7-780, IEC 60364-7-781, IEC 60364-7-782, IEC 60364-7-783, IEC 60364-7-784, IEC 60364-7-785, IEC 60364-7-786, IEC 60364-7-787, IEC 60364-7-788, IEC 60364-7-789, IEC 60364-7-790, IEC 60364-7-791, IEC 60364-7-792, IEC 60364-7-793, IEC 60364-7-794, IEC 60364-7-795, IEC 60364-7-796, IEC 60364-7-797, IEC 60364-7-798, IEC 60364-7-799, IEC 60364-800									
Grid standards	AS/NZS 4777, VDE V6124-106, VDE V6124-1-1, VDE-AR-N 4105, CEI 0-16, UNE 204 007-1, EN50439, CENELEC, EN50310, NABTS2004									