










SOFAR 50k~70kTL

50000/ 60000/ 70000

Three-Phase

Three-MPPT

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|---|---|
|  4" Super large 4-inch LCD |  Fuse free design |
|  Outdoor IP65 protection level |  Built-in DRM port and logic |
|  Sound and light alarm function |  Max. efficiency up to 98.6% |
|  DC SPD Class 2, over/under voltage, over current, over temperature, Anti-islanding and other multiple protections | |

Datasheet	SOFAR 50000TL	SOFAR 60000TL	SOFAR 70000TL-HV
Input (DC)			
Recommended Max. PV input power	66500Wp	79800Wp	93100Wp
Max DC power for single MPPT	22000W	22000W	26000W
	16000W	22000W	26000W
	16000W	22000W	26000W
Number of MPP trackers		3	
Number for DC inputs	4/3/3	4/4/4	4/4/4
Max. input voltage		1000V	
Start-up voltage		350V	
Rated input voltage	600V	600V	700V
MPPT operating voltage range		250V-950V	
Full power MPPT voltage range	530V-800V	530V-800V	660V-800V
Max. input MPPT current	40A/30A/30A	40A/40A/40A	40A/40A/40A
Max. input current per string		12A	
Maximun DC input short circuit current per MPPT	48A/36A/36A	48A	48A
Output (AC)			
Rated power	50000W	60000W	70000W
Max. AC power	50000VA	60000VA	75000VA
Max. Output current	80A	90A	90A
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		>0.99 (adjustable +/-0.8)	
Performance			
Max efficiency	98.5%	98.6%	98.6%
European weighted efficiency	98.3%	98.4%	98.4%
Self-consumption at night		<1W	
MPPT efficiency		>99.9%	
Protection			
DC reverse polarity protection		Yes	
DC switch		Yes	
Protection class/ overvoltage category		I/III	
Input/ output SPD(III)		PV: type II standard, AC: type II optional	
Safety protection		Anti islanding, RCMU, Ground fault monitoring	
ARPC		Anti reverse power controller (optional)	
Communication			
Power management unit		According to certification and request	
Standard communication mode		RS485, Wifi/Ethernet/GPRS(optional), SD card, Multi-function relay	
Operation data storage		25 years	
General Data			
Ambient temperature range		-25°C ~ +60°C	
Topology		Transformerless	
Degree of protection		IP65	
Allowable relative humidity range		0~100%	
Max. operating altitude		4000m	
Noise		≤60dB	
Weight	68kg	70kg	70kg
Cooling		Fan	
Dimension		713*737*297mm	
Display		LCD display	
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 standards	IEC 61000-6-2, IEC 61000-6-4, IEC 61000-3-11, IEC 61000-3-12, IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068(1,2,14,30)		
Grid standards		AS/NZS 4777, VDE V 0124-100, V 0126-1-1, VDE-AR-N 4105, BDEW, CEI 0-21/CEI 0-16, UNE 206 007-1, EN50549, G59, EN50530, NB/T32004	