

SOFAR 15K~24KTLC-G3

15 / 17 / 20 / 22 / 24 kW

THREE-PHASE DUAL MPPT



Product advantages

- Maximum efficiency 98.6%
- Low start-up voltage, wide MPPT voltage
- Maximum DC input voltage 1100 V
- Smart string level monitoring
- Type II SPD for both DC and AC side
- Remote firmware upgrade
- 110% long-time overload ability



Datasheet	SOFAR 15KTLC-G3		SOFAR 17KTLC-G3		SOFAR 20KTLC-G3		SOFAR 22KTLC-G3		SOFAR 24KTLC-G3	
Input (DC)										
Max. input voltage	1100V									
Rated input voltage	650V									
Start-up voltage	160V									
MPPT operating voltage range	140V~1000V									
Number of MPP trackers	2									
Number of DC inputs	2/2									
Max. input MPPT current	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A	26A/26A
Max. input short circuit current	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A	36A/36A
Output (AC)										
Rated output power	15000W	17000W	20000W	22000W	24000W	26400VA	28000W	30000W	32000W	34000W
Max. apparent power	16500V A	18700V A	22000VA	24200VA	26400VA	28000VA	30000VA	32000VA	34000VA	36000VA
Max. output current	23.9A	27.1A	31.9A	35.1A	38.3A	41.7A	45.1A	48.5A	51.9A	55.3A
Rated output voltage	3/N/PE, 230V/400Vac									
Output voltage range	310V ac-480Vac									
Rated output frequency	50/60Hz									
Output frequency range	45Hz-55Hz/55Hz-65Hz									
Active power adjustable range	0~100%									
THDi	<3%									
Power factor	1 (adjustable +/-0.8)									
Efficiency										
Max. efficiency	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%	98.6%
European efficiency	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%	98.2%
Protection										
DC reverse polarity protection	Yes									
Anti-islanding protection	Yes									
Leakage current protection	Yes									
Ground fault monitoring	Yes									
PV-array string fault monitoring	Yes									
DC switch	Yes									
SPD	PV: type II, AC: type II									
General Data										
Ambient temperature range	-30 C ~+60C									
Self-consumption at night	<1W									
Topology	Transformerless									
Degree of protection	IP65									
Allowable relative humidity range	0~100%									
Max. operating altitude	4000m									
Cooling	Smart air cooling									
Dimension (W×H×D)	520×430×189mm									
Weight	20kg	22kg	22kg	23kg	23kg	24kg	25kg	26kg	27kg	28kg
Display	LCD & Bluetooth +APP									
Communication	RS485/WiFi									
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2 G99, VDE-AR-N 4105, VDE V 0126-1-1,CEI0-21, EN 50549-1, NRS 097-2-1									

*All specifications are subject to change without notice.