

SOFAR 3K~12KTLC-G3

3 / 4 / 5 / 6 / 8 / 10 / 12 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
- Remote firmware upgrade
- Natural cooling, no fans, low noise
- Type II SPD for both DC and AC side



Datasheet	SOFAR 3KTLC-G3	SOFAR 4KTLC-G3	SOFAR 5KTLC-G3	SOFAR 6KTLC-G3	SOFAR 8KTLC-G3	SOFAR 10KTLC-G3	SOFAR 10KTLC-G3-A	SOFAR 12KTLC-G3
Input (DC)								
Max. input voltage	1100V							
Rated input voltage	650V							
Start-up voltage	160V							
MPPT operating voltage range	140V-1000V							
Number of MPPTs	2							
Number of DC inputs	1/1				1/2			
Max. input MPPT current	15A/15A				15A/30A			
Max. input short circuit current	22.5A/22.5A				22.5A/45A			
Output (AC)								
Rated output power	3000W	4000W	5000W	6000W	8000W	10000W	10000W	12000W
Max. apparent power	3300VA	4400VA	5500VA	6600VA	8800VA	11000VA	10000VA	13200VA
Max. output current	5A	6.7A	8.3A	10A	13.3A	16.7A	15.2A	20A
Rated output voltage	3/N/PE, 230/400Vac							
Output voltage range	310Vac-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	98.40%	98.40%	98.40%	98.40%	98.50%	98.50%	98.50%	98.50%
European efficiency	97.50%	97.50%	97.50%	97.50%	98.00%	98.00%	98.00%	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							
DC switch	Yes							
SPD	PV: type II, AC: type II							
General Data								
Ambient temperature range	-30 C ↔+60 C							
Self-consumption at night	<1W							
Topology	Transformerless							
Degree of protection	IP65							
Allowable relative humidity range	0-100%							
Max. operating altitude	4000m							
Cooling	Natural							
Dimension (W×H×D)	430×385×182mm							
Weight	17kg					18kg		
Display	LCD & Bluetooth +APP							
Communication	RS485/WiFi							
Standard	IEC/EN 61000-6-1/3, IEC/EN 61000-3-2/3, IEC/EN 61000-3-11/12, IEC 62116, IEC 61727, IEC 61683, IEC 60068-1/2/14/30, IEC/EN 62109-1/2 C98/C99, CEI0-21, VDE-AR-N 4105, VDE V 0126-1-1, EN 50549-1, UNE 217002-2020							

*All specifications are subject to change without notice.



CERTIFICATE OF PRODUCT CERTIFICATION

SOLAR PRODUCT CERTIFICATE

CERTIFICATE NO.: CQC21024311152

Valid from: Sep.02,2021

Valid until: long-term

**NAME AND REGISTERED
ADDRESS OF THE APPLICANT**

Shenzhen SOFARSOLAR Co., Ltd.
401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen, China.

**NAME AND REGISTERED
ADDRESS OF THE
MANUFACTURER**

Shenzhen SOFARSOLAR Co., Ltd.
401, Building 4, AnTongDa Industrial Park, District 68, XingDong Community, XinAn Street, BaoAn District, Shenzhen, China.

**NAME AND LOCATION
OF THE FACTORY**

Dongguan SOFAR SOLAR Co., Ltd.
1F - 6F, Building E, No. 1 JinQi Road, Bihu Industrial Park, Wulian Village, Fenggang Town, Dongguan City.

**PRODUCT NAME, MODEL
AND SPECIFICATION**

Solar Grid-tied Inverter
See Appendix

**THE STANDARDS AND
TECHNICAL REQUIREMENTS
FOR THE PRODUCTS**

NB/T32004-2018

**TYPE OF CERTIFICATION
SCHEMES**

Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC33-461239-2018.
The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body.

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn



SIGNATURE:

谢肇煦



CHINA QUALITY CERTIFICATION CENTRE



CERTIFICATE OF PRODUCT CERTIFICATION

SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 1 of 2

CERTIFICATE NO.: CQC21024311152

PAPER:

SOFAR 12KTLC-G3:

直流输入: MPPT 电压范围 140V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 15A/30A; 交流输出: 3/N/PE, 400V, 50Hz, Max. 20A, 额定交流输出功率 12kW.

SOFAR 10KTLC-G3:

直流输入: MPPT 电压范围 140V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 15A/15A; 交流输出: 3/N/PE, 400V, 50Hz, Max. 16.7A, 额定交流输出功率 10kW.

SOFAR 8KTLC-G3:

直流输入: MPPT 电压范围 140V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 15A/15A; 交流输出: 3/N/PE, 400V, 50Hz, Max. 13.3A, 额定交流输出功率 8kW.

SOFAR 6KTLC-G3:

直流输入: MPPT 电压范围 140V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 15A/15A; 交流输出: 3/N/PE, 400V, 50Hz, Max. 10A, 额定交流输出功率 6kW.

SOFAR 5KTLC-G3:

直流输入: MPPT 电压范围 140V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 15A/15A; 交流输出: 3/N/PE, 400V, 50Hz, Max. 8.3A, 额定交流输出功率 5kW.

SOFAR 4KTLC-G3:

直流输入: MPPT 电压范围 140V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流

NOTE: This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE



CERTIFICATE OF PRODUCT CERTIFICATION

SOLAR PRODUCT CERTIFICATE

APPENDIX

Page 2 of 2

CERTIFICATE NO.: CQC21024311152

PAPER:

15A/15A; 交流输出: 3/N/PE, 400V, 50Hz, Max. 6.7A, 额定交流输出功率 4kW.

SOFAR 3KTLC-G3:

直流输入: MPPT 电压范围 140V-1000Vdc, 最大直流输入电压 1100Vdc, 最大输入电流 15A/15A; 交流输出: 3/N/PE, 400V, 50Hz, Max. 5A, 额定交流输出功率 3kW.

NOTE: This appendix is valid when used with the certificate.



CHINA QUALITY CERTIFICATION CENTRE