ATTESTATION ◆ ATTESTATO ◆ ATTESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Product Service

Compliance Document

No. D 131542 0012 Rev. 00

Holder of Attestation: **TCL Photovoltaic Technology (Shenzhen) Co., Ltd.**
D301, Building A3
No.2533 Guanguang Road
Fenghuang Community, Fenghuang Street, Guangming District
518132 Shenzhen City, Guangdong Province
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
Hybrid Inverter

Model(s): **SP-ARSH-4.6kW-G1, SP-ARSH-5kW-G1, SP-ARSH-6kW-G1, SP-ARSH-8kW-G1, SP-ARSH-10kW-G1**

Parameters: See next pages

Tested according to: G99/2:2025

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the particular sample. This compliance document makes no statement regarding the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 5040925003749-00

Date, 2025-11-28

(Zhengdong Ma)

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

ATTESTATION ◆ ATTESTATO ◆ ATESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Product Service

Compliance Document

No. D 131542 0012 Rev. 00

Parameters:

Models	SP-ARSH-4.6kW-G1	SP-ARSH-5kW-G1
PV INPUT		
Max. PV input power	9200 W	10000 W
Max. input voltage	DC 600 V	
MPPT voltage range	DC 50 V, …, 560 V	
Max. input current	DC 16 × 2 A	
Isc PV	DC 22 × 2 A	
BATTERY		
Battery type	LFP	
Battery Voltage Range	DC 80 V, …, 500 V	
Max. Charge/ Discharge Current	DC 50 A	
AC GRID		
Nominal voltage	1/N/PE ~ 230 V	
Nominal frequency	50 Hz	
Nominal output power	4600 W	5000 W
Max. cont. apparent output power	4600 VA	5000 VA
Max. cont. output current	AC 20 A	AC 21.8 A
Max. cont. apparent input power	9200 VA	10000 VA
Max. cont. input current	AC 40 A	AC 43.5 A
Power factor	1(-0.8, …, +0.8 adjustable)	

Models	SP-ARSH-6kW-G1	SP-ARSH-8kW-G1	SP-ARSH-10kW-G1
PV INPUT			
Max. PV input power	12000 W	16000 W	20000 W
Max. input voltage	DC 600 V		
MPPT voltage range	DC 50 V, …, 560 V		
Max. input current	DC 16 × 2 A	DC 16 × 4 A	
Isc PV	DC 22 × 2 A	DC 22 × 4 A	
BATTERY			
Battery type	LFP		
Battery Voltage Range	DC 80 V, …, 500 V		
Max. Charge/ Discharge Current	DC 50 A		
AC GRID			
Nominal voltage	1/N/PE ~ 230 V		
Nominal frequency	50 Hz		
Nominal output power	6000 W	8000 W	10000 W
Max. cont. apparent output	6000 VA	8000 VA	10000 VA

TÜV SÜD Product Service GmbH • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

Product Service

Compliance Document

No. D 131542 0012 Rev. 00

power			
Max. cont. output current	AC 26.1 A	AC 34.8 A	AC 43.5 A
Max. cont. apparent input power	12000 VA	14490 VA	
Max. cont. input current	AC 52.2 A	AC 63 A	
Power factor	1(-0.8, …, +0.8 adjustable)		

Protection settings (Manufacturer default settings)

Protection Function	Type A Power Generating Modules	
	LV Protection	
	Trip setting	Time delay setting
U/V	$V_{\varphi\text{-}n}$ – 20%	2.5 s
O/V st 1	$V_{\varphi\text{-}n}$ + 14%	1.0 s
O/V st 2	$V_{\varphi\text{-}n}$ + 19%	0.5 s
U/F st 1	47.5 Hz	20 s
U/F st 2	47 Hz	0.5 s
O/F	52 Hz	0.5 s
Reconnection time delay after interface protection	60 s as default (adjustable)	
Loss of Mains (RoCoF)	1 Hzs^{-1} time delay 0.5 s	