ATTESTATION ◆ ATTESTATO ◆ ATTESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Product Service

Compliance Document

No. D 131542 0015 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-3.6kW-G1, 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:	RD 1699:2011 RD 647:2020 RD 413:2014 UNE 217002:2020

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.: 5040925003743-00

Date, 2025-12-17

(Zhengdong Ma)

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Parameters:

Models	SP-ARSH-3.6kW-G1	SP-ARSH-4.6kW-G1	SP-ARSH-5kW-G1
PV INPUT			
Max. PV input power	7360 W	9200 W	10000 W
Max. input voltage	DC 600 V		
MPPT voltage range	DC 50 V, …, 560 V		
Max. input current	DC 2 × 16 A		
Isc PV	DC 2 × 22 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	3680 W	4600 W	5000 W
Max. cont. apparent output power	3680 VA	4600 VA	5000 VA
Max. cont. output current	AC 16 A	AC 20 A	AC 21.8 A
Max. cont. apparent input power	7360 VA	9200 VA	10000 VA
Max. cont. input current	AC 32 A	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 2 × 16 A	DC 4 × 16 A	
Isc PV	DC 2 × 22 A	DC 4 × 22 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		

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Nominal frequency	50 Hz		
Nominal output power	6000 W	8000 W	10000 W
Max. cont. apparent output power	6000 VA	8000 VA	10000 VA
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)		

Interface protection system default settings and power controls in inverter

Parameter	Normative requirements		Internal threshold setting	
	Trip setting	Clearance time	Factory setting	Clearance time
Under voltage	Un – 15%	Max. 1.5 s	$V_{\varphi-n}$ – 15% = 195.5V	1.4 s
Over voltage stage 1	Un + 10%	Max. 1.5 s	$V_{\varphi-n}$ + 10% = 253V	1.4 s
Over voltage stage 2	Un + 15%	Max. 0.2 s	$V_{\varphi-n}$ + 15% = 264.5V	0.15 s
Under frequency	48.0 Hz	Min. 3.0 s	48.0 Hz	3.1 s
Over frequency	51.0 Hz	Max. 0.5 s	51.0 Hz	0.4 s
Reconnection voltage range after a network outage and response to abnormal conditions	-	85 % Un … 110 % Un	-	85 % Un … 110 % Un
Reconnection frequency range after a network outage and response to abnormal conditions	-	48.0 Hz to 50.00 Hz	-	48.0 Hz to 50.00 Hz
Reconnection time after voltage and frequency protection	-	180 s	-	180 s
Tolerances declared by manufacturer on trip values: - voltage: ± 1%; - frequency: ± 0.1%;				

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