ATTESTATION ◆ ATTESTATO ◆ ATTESTACIÓN ◆ BESCHEINIGUNG ◆ ATTESTATION

Product Service

Compliance Document

No. D 131542 0017 Rev. 00

Holder of Attestation: **TCL Photovoltaic Technology (Shenzhen) Co., Ltd.**
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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: G100/2-2:2023

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.: 5040926003701-00

Date, 2026-03-18

(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	7360W	9200W	10000W
Max. input voltage	DC 600V		
MPPT voltage range	DC 50, …, 560V		
Max. input current	DC 16A x 2		
Isc PV	DC 22A x 2		
BATTERY			
Battery type	LFP		
Battery Voltage Range	DC 80, …, 500V		
Max. Charge/ Discharge Current	DC 50A		
AC GRID			
Nominal voltage	1/N/PE AC 230V		
Nominal frequency	50Hz		
Nominal output power	3680W	4600W	5000W
Max. cont. apparent output power	3680VA	4600VA	5000VA
Max. cont. output current	AC 16A	AC 20A	AC 21.8A
Max. cont. apparent input power	7360VA	9200VA	10000VA
Max. cont. input current	AC 32A	AC 40A	AC 43.5A
Power factor	-0.8, …, 1, …, +0.8		

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Models	SP-ARSH-6kW-G1	SP-ARSH-8kW-G1	SP-ARSH-10kW-G1
PV INPUT			
Max. PV input power	12000W	16000W	20000W
Max. input voltage	DC 600V		
MPPT voltage range	DC 50, …, 560V		
Max. input current	DC16A x 2	DC 16A x 4	
Isc PV	DC 22A x 2	DC 22A x 4	
BATTERY			
Battery type	LFP		
Battery Voltage Range	DC 80, …, 500V		
Max. Charge/ Discharge Current	DC 50A		
AC GRID			
Nominal voltage	1/N/PE AC 230V		
Nominal frequency	50Hz		
Nominal output power	6000W	8000W	10000W
Max. cont. apparent output power	6000VA	8000VA	10000VA
Max. cont. output current	AC 26.1A	AC 34.8A	AC 43.5A
Max. cont. apparent input power	12000VA	14490VA	
Max. cont. input current	AC 52.2A	AC 63A	
Power factor	-0.8, …, 1, …, +0.8		

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Single-phase electricity meters are equipped with external CT	
Model	ADL200N-CT/D10
Electrical ratings	
Grid	Single-phase
Rated voltage	230V
Frequency	50Hz
Input Current	80A
Accuracy class	Error ±0.5%
Power consumption	<0.2 VA
Power	Active, reactive, apparent power, error ±0.5%

Single-phase electricity meters do not have external CT	
Model	ADL200
Input voltage	
Reference Voltage	230V
Reference Frequency	50Hz
Power consumption	<10 VA
Input Current	
Reference current	0.5-10(80)A
Consumption	<4 VA
Measurement performance	
Accuracy of measuring	Class B

In-built Power Sensor	
Model	AKH-0.66 K-Φ10
Reference current	80A/26.7mA
Accuracy of measuring	Class 0.5

Functional Description and electrical schematic diagram:

The system is composed with the inverter and the Export/ Import power manager.

The Export/ Import power manager is installed at the grid connection point of the system and measuring the current/voltage/power data, etc. The data will be obtained by the inverter through the RS485 communication line between the inverter com port and the Export/ Import power manager. Inverter will dynamically control its generation power based on the Export/ Import power manager's data to guarantee the Export/ Import current at the grid connection point into the distribution network will not exceed the CLS in a normal condition.

System schematic diagram is showing below:

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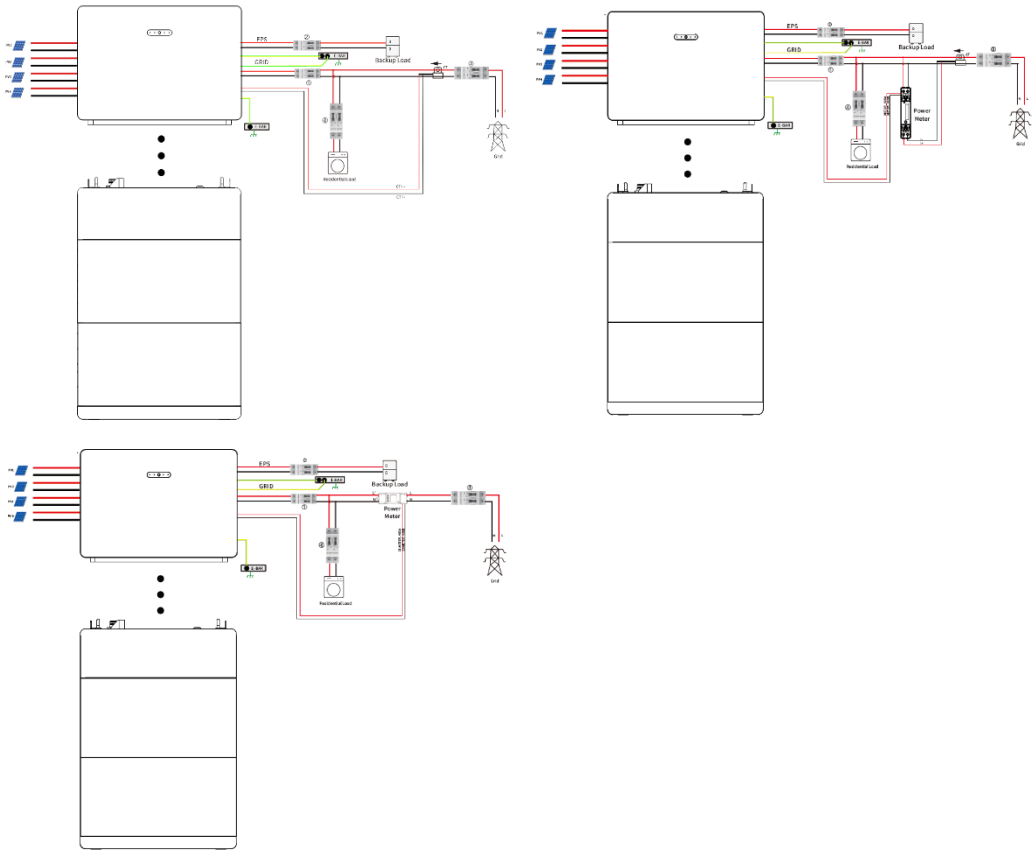
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Single inverter mode：



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parallel inverter mode:

