



LISTING REPORT/INSPECTION PROCEDURE

Shanghai PYTES Energy Co., Ltd.
PROJECT NUMBER: SH-CERT250504289

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Issued: June 24, 2025
Revised: None

620 Old Peachtree Road NW, Suite 100, Suwanee, GA 30024 USA (770) 570-1800

Test Report Number: SHES240701540731

A representative sample of the product covered by this report has been evaluated and found to comply with the applicable requirements of

- Energy Storage Systems and Equipment – ANSI/CAN/UL 9540:2023, Third Edition, dated June 28, 2023

Issuing Laboratory	SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Address	588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
Applicant (Certificate Holder)	Shanghai PYTES Energy Co., Ltd.
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Manufacturer	Shanghai PYTES Energy Co., Ltd.
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Product Type :	Energy Storage System (including Hybrid Inverter and Battery Packs)
Trademark :	PYTES
Product description :	The products covered by this report are permanently connected Energy Storage System for use in household or electric power systems including PV input. The units are suitable for installation in indoor/outdoor locations. The installation should be accordance with the National Electrical Code, NFPA 70 and Installation of Stationary Energy Storage Systems, NFPA 855.
Model Number(s) :	Pi PLUS S8K, Pi PLUS S12K, Pi PLUS S15K, Pi PLUS S5KST, Pi PLUS S8KST, Pi PLUS S12KST
Model Differences :	Pi PLUS S8K, Pi PLUS S12K, Pi PLUS S15K includes: Hybrid Inverter: Sol-Ark, Limitless 8K-LV, Limitless 12K-LV, Limitless 15K-LV, Battery Pack: PYTES, V5°α Plus, up to 12 battery packs in parallel. Pi PLUS S5KST, Pi PLUS S8KST, Pi PLUS S12KST includes: Hybrid Inverter: Sol-Ark, Sol-Ark-5K-48-ST, Sol-Ark-8K-48-ST, Sol-Ark-12k-P, Battery Pack: PYTES, V5°α Plus, up to 12 battery packs in parallel.

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Electrical Ratings.....	Pi PLUS S8K
	Sol-Ark, Limitless 8K-LV / V5°α Plus
	PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current 26A+26A.
	AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 8kW, Max AC Output Current 33.3A, Frequency 60Hz, Power Factor +/-0.9 adjustable.
	Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 180A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.
	Pi PLUS S12K
	Sol-Ark, Limitless 12K-LV / V5°α Plus
	PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current 26A+26A.
	AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 12kW, Max AC Output Current 50A, Frequency 60Hz, Power Factor +/-0.9 adjustable.
	Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.
	Pi PLUS S15K
	Sol-Ark, Limitless 15K-LV / V5°α Plus
	PV Input: Max PV Input 19.5kW, Nominal PV Voltage Range 175~425V, Max Input Current 26A+26A+26A.
	AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 15kW, Max AC Output Current 62.5A, Frequency 60Hz, Power Factor +/-0.9 adjustable.
	Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.
	Pi PLUS S5KST
	Sol-Ark, Sol-Ark-5K-48-ST / V5°α Plus

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PV Input: Max PV Input 6.5kW, Nominal PV Voltage Range 175~425V, Max Input Current 10A+10A.
AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 5kW, Max AC Output Current 20.8A@240V, 29.1A@208V, Frequency 60Hz, Power Factor +/-0.9.
Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 120A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.

Pi PLUS S8KST

Sol-Ark, Sol-Ark-8K-48-ST / V5°α Plus

PV Input: Max PV Input 11kW, Nominal PV Voltage Range 175~425V, Max Input Current 18A+18A.

AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 8kW@240V, 6.9kW@208V, Max AC Output Current 33A@240V, 33.3A@208V, Frequency 60Hz, Power Factor +/-0.9.

Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 185A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.

Pi PLUS S12KST

Sol-Ark, Sol-Ark-12k-P / V5°α Plus

PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current 20A+20A.

AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 9kW@240V, 7.8kW@208V, Max AC Output Current 37.5A, Frequency 60Hz, Power Factor +/-0.9.

Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 185A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.



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Other Ratings	IP65 for Inverter, IP20 for Batteries
Accessories	N/A
Testing Laboratory	Suzhou Institute of Product Quality Supervision and Inspection
Address	2/F North C, Building 2, No.50, North Guandu Road, Wuzhong District, Suzhou, Jiangsu, China
Date of receipt of test item	2024-09-30
Date(s) of performance of tests	2024-10-15 to 2024-10-25
Certification Conditions	
(X Condition)	N/A
Component Conditions	
(U Condition)	N/A

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CO-LISTING PAGE

CO-LISTING APPLICANT I

Applicant's Name:

Address:

Primary Contact:

Phone:

Email:

Product Correlation:

Basic Models	Co-Listed Models	Note any differences between Basic and Co-Listed models

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CO-LISTING APPLICANT II

Applicant's Name:

Address:

Primary Contact:

Phone:

Email:

Product Correlation:

Basic Models	Co-Listed Models	Note any differences between Basic and Co-Listed models

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GENERAL INFORMATION

Components

Components used in the covered products must be those outlined in the latest edition of the Listing Report.

Listing Marking

This report along with a valid certificate authorizes the certificate holder to use the Listing Marking of SGS North America only on products covered by this report and in accordance with the Product Certification Program Policy Handbook.

Production Line Tests

Manufacturing and Production Tests shall be performed as required by this Report.

Responsibility of the Manufacturer and Factory

- 1) It is the manufacturer and factory's responsibility to restrict the use of markings which reference SGS to those products which are found by the manufacturers own inspection to comply with the product description in this report. This includes reference to SGS directly and/or indirectly.
- 2) During hours in which the factory is in operation, the SGS inspector shall be given unlimited access to any portion of the premises where the product and/or parts are being produced, assembled, inspected and labeled; and to the test area designated for routine tests. The SGS inspector shall be permitted to inspect and subject the products to prescribed tests prior to shipment any product bearing or intended to bear marking referencing SGS.
- 3) The factory shall provide all required testing equipment and facilities including trained personnel for conducting all routine tests that are to be performed at the factory. These shall be available when needed so that the inspection work can proceed without delays.

Follow up Inspections

As part of the SGS Follow-Up inspection, it is required that an inspector periodically visit the factory location(s) and select for examination and/or testing, the most recent production sample of the product covered in the Listing Report.

SGS Inspector

- 1) A product which is found by the SGS inspector to have features which make it unacceptable to bear marking referencing SGS shall be corrected if the listing marking is to be used. The inspector shall carefully check additional production for such features until conditions are considered normal.
- 2) A product which does not comply with the provisions of the listing report shall have all reference to SGS removed. If the rejection of the product is questioned by the factory representative, it may be put on hold in separate area of location pending appeal. The factory shall satisfy the inspector that all marks referencing SGS are removed from the rejected material or finished product. Factory shall destroy product and or turn over to inspector for destruction.
- 3) All discrepancies between the product and the listing report shall be immediately stated to the attention of the factory representative. This shall be noted in the follow-up inspection report as a discrepancy.

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GENERAL CONSTRUCTIONAL REQUIREMENTS TO BE VERIFIED

Construction Details - This section specifies construction and component details in addition to the critical components table which are to be verified during factory follow-up inspections.

1. Mechanical Assembly – A wiring device shall be prevented from any turning that can apply tension to conductor connections, result in damage to the conductor, or otherwise adversely affect the assembly. Friction alone between the mating parts of the assembly shall not be acceptable to prevent turning.
2. Corrosion – All bare metal parts are protected against corrosion by coating, painting, plating or other means specifically identified in the specific construction details unless these metal parts inherently possess such properties to resist corrosion.
3. Accessibility of Live Parts – All uninsulated live parts in primary circuitry are housed within a metallic enclosure constructed without openings unless otherwise described in the construction details.
4. Grounding – All dead-metal parts external or within the enclosure that are exposed to contact during normal or any servicing operation are connected to the equipment grounding terminal. The methods of protective bonding and grounding of an ESS shall be in accordance with Article 250 of NFPA 70 or Section 9 of IEEE C2 as applicable to where the system is located. When sizing the protective bonding and grounding wire, the rating and fault current path of all sources of supply connected to the equipment or system shall be considered. In Canada, the methods of bonding and grounding of an ESS shall be in accordance with Section 10 and 36 of CSA C22.1.
5. Conductor Protection - Conductors that pass over edges or through openings in metal shall be secured from contacting the edges or be protected from cutting and abrasion. For sheet metal less than 1.1 mm thick, protection shall be provided by one of the following methods:
 - (a) rolling the edge of the metal not less than 120 degrees;
 - (b) a bushing or grommet of a material other than rubber at least 1.2 mm thick; or
 - (c) glass sleeving at least 0.25 mm thick.
6. Internal Wiring – UL/CUL listed. Internal wiring shall be routed, supported, clamped or secured in a manner that reduces the likelihood of excessive strain on wire and on terminal connections; loosening of terminal connections; and damage of conductor insulation.
7. Wire Connectors – UL/CUL listed of UL486A-486B.
8. Heat Shrinkable Tubing – UL recognized of materials, covered on wire connectors.
9. Marking and Labeling Systems – Pressure-sensitive labels and nameplates of the permanent type (Type P) that are secured by adhesive shall be in accordance with CSA C22.2 No. 0.15 or UL 969, suitable for damp locations and rated min. 60 °C when applied on Canopy.
10. Installation, Operating and Safety Instructions – Instructions for installation and use of this product are provided by the manufacturer as required by the standards.

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11. Opening and/or knockout – Opening and/or knockout for conduit or armored cable will be provided in field, then suitable conduit hubs shall be used to guarantee Type 4X or IP65 degree and minimum 12.7mm spacing to wall shall be guaranteed.
12. Field wiring – The field wiring for different part of system will not be provided by Manufacturer, so suitable wire size and number shall be chosen according to National Electrical Code, NFPA 70, the Canadian Electrical Code, Part I Safety Standard for Electrical Installations, C22.1, or the National Electrical Safety Code, IEEE C2 as applicable to where the system is located.

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ROUTINE TESTS FOR MANUFACTURING AND PRODUCTION

The manufacturer shall perform the following Manufacturing and Production Tests on 100% of equipment produced which has both hazardous live parts and accessible conductive parts.

Required Tests

Dielectric Voltage Withstand Test
Grounding Continuity Test
Check of Safety Controls

Dielectric Voltage Withstand Test

A dielectric withstand test as outlined in the Dielectric Voltage Withstand Test in Section 32 shall be conducted on 100 % production of ESS with working voltage exceeding 60 Vdc or 30 Vrms/42.4 Vpeak.

Section 32:

The dielectric voltage withstand test is an evaluation of the electrical spacings and insulation associated with the hazardous voltage circuits within the DUT.

Circuits at 42.4Vpeak / 30Vrms or 60Vdc or higher shall be subjected to a dielectric withstand voltage in accordance with the "Determining clearances using required withstand voltage" clause of UL 62368-1/CSA C22.2 No. 62368-1.

Exception No. 1: Semiconductors or similar electronic components liable to be damaged by application of the test voltage shall be bypassed or disconnected.

Exception No. 2: The dielectric voltage withstand test need not be conducted on integral ESS, fuel cells, and inverter systems, etc. that have already been evaluated in accordance with their individual standard requirements. Only those electrical parts external to the tested systems and their connections not previously evaluated need to be tested.

The voltage applied during the dielectric voltage withstand test is to be applied between the hazardous voltage circuits of the DUT and accessible non-current carrying conductive parts.

The voltage applied during the dielectric voltage withstand test is also to be applied between the hazardous voltage charging circuit and the enclosure/accessible non-current carrying conductive parts of the DUT.

The voltages applied during the dielectric voltage withstand test shall be applied for a minimum of 1 min.

The test equipment shall consist of a 500VA or larger capacity transformer, the output voltage, which is variable and which is essentially sinusoidal if using ac test method, a dc output if using a dc test method. There is no trip current setting for the test equipment since the test is checking for insulation breakdown, which results in a large increase of current. Setting a trip current may result in a false failure of this test, as it is not necessarily indicative of insulation breakdown.

Exception: A 500VA or larger capacity transformer need not be used if the transformer is provided with a voltmeter that directly measures the applied output potential.

There shall be no evidence of a dielectric breakdown (breakdown of insulation resulting in a short through insulation/arcing over electrical spacings) as evidenced by an appropriate signal from the dielectric withstand test equipment as a result of the applied test voltage. Corona discharge or a single momentary discharge is not regarded as dielectric breakdown (i.e. insulation breakdown).

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Exception No. 1: The time for the production Dielectric Withstand Test can be reduced to 1s.

Exception No. 2: Testing can be conducted on subassemblies of the system.

Exception No. 3: Testing can be waived if conducted as part of the specific technology evaluation (i.e. tested per UL 1973, etc.).

Grounding Continuity Test

Method

The grounding and bonding system of an ESS shall be subjected to a check using an impedance measuring device. The measurements shall occur between any two locations of the grounding and bonding system.

No resistance measurements of the grounding and bonding system shall exceed 0.1Ω or if using the test method in (d), the compliance criteria shall be in accordance with IEC 60364-4-41.

The impedance of the system grounding and bonding circuit shall be determined using one of the following methods:

- a) The circuit between the grounding terminal and the part to be grounded is measured using impedance measuring equipment;
- b) In accordance with the Continuity of the Equipment Grounding Circuit section, Section 18.2 of NFPA 79 (voltage drop measurement of the circuit using a 10 A low voltage supply source); or
- c) In accordance with test in the "Resistance of the Protective Bonding System" clause, Clause 5.6.6 of UL 62368-1/CSA C22.2 No. 62368-1 (measuring voltage drop in circuit using a low voltage supply source providing a current based upon circuit protection rating).
- d) The fault loop impedance measurement in accordance with IEC 60364-4-41.

In Canada, the circuit under test is referred to as the bonding circuit per CSA C22.1.

Exception: This testing can be waived if it is determined that the ESS construction and production methods to ensure good grounding and bonding of the system production can be determined through a review of production practices. However, if any point of the grounding system is maintained through a single fastener, a ground bond test shall be conducted.

Check of safety controls

Energy storage systems shall be subjected to 100 % production screening to determine that any active controls utilized for safety are functioning.

Exception: This check of the safety controls can be conducted on subassemblies or components of the system before final assembly

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PHOTOGRAPHS

Energy Storage System (including Hybrid Inverter and Battery Packs)

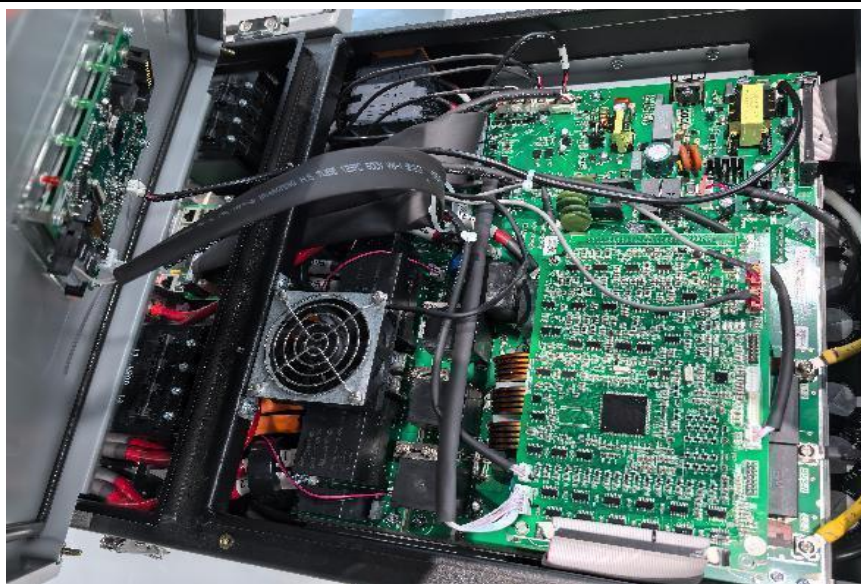
Pi PLUS S8K, Pi PLUS S12K, Pi PLUS S15K, Pi PLUS S5KST, Pi PLUS S8KST, Pi PLUS S12KST

PHOTO NO. 1-12

Photo 1: Hybrid Inverter (Sol-Ark Limitless 8K-LV, Limitless 12K-LV, Limitless 15K-LV)



Photo 2: Hybrid Inverter (Sol-Ark Limitless 8K-LV, Limitless 12K-LV, Limitless 15K-LV)



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Photo 3: Hybrid Inverter (Sol-Ark-5K-48-ST, Sol-Ark-8K-48-ST, Sol-Ark-12k-P)



Photo 4: Hybrid Inverter (Sol-Ark-5K-48-ST, Sol-Ark-8K-48-ST, Sol-Ark-12k-P)



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Photo 5: Battery Module (V5°α Plus)



Photo 6: Battery Module (V5°α Plus)



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Photo 7: Battery Box (V-BOX-OC)



Photo 8: Battery Box (V-BOX-OC PLUS)



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Photo 9: Battery Bracket (V5° Bracket)

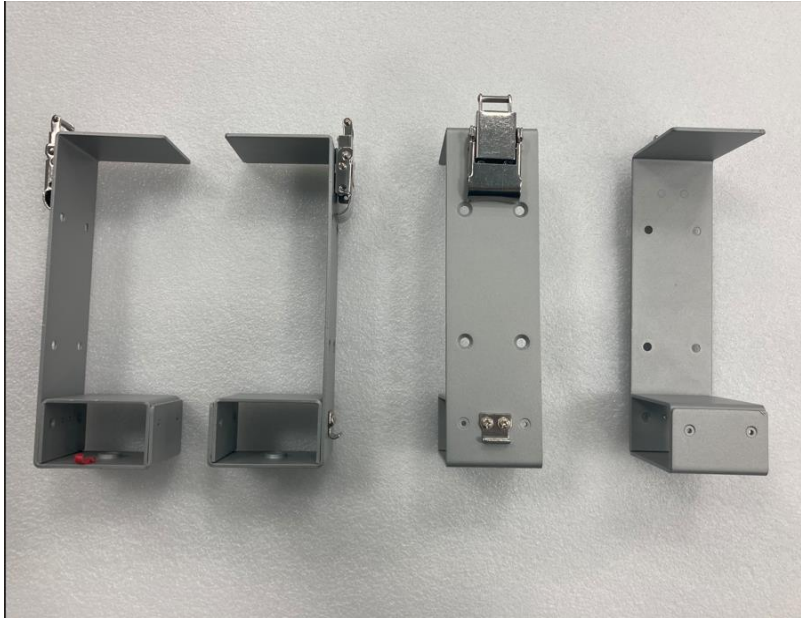
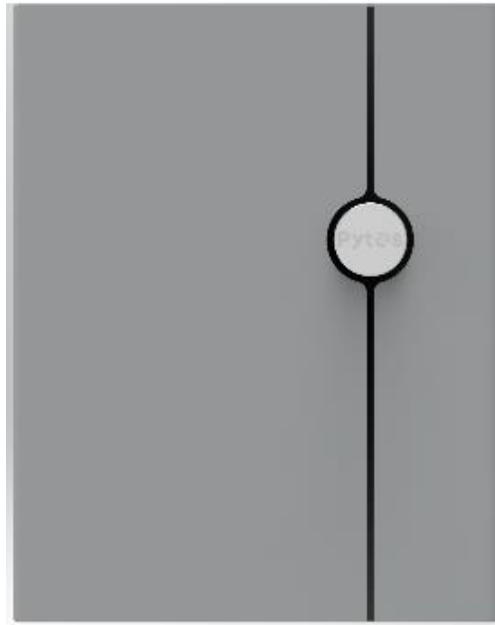


Photo 10: Battery Box (VR-BOX-IC)



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Shanghai PYTES Energy Co., Ltd.
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Revised: None

Photo 11: Battery Bracket (V5 BK1)

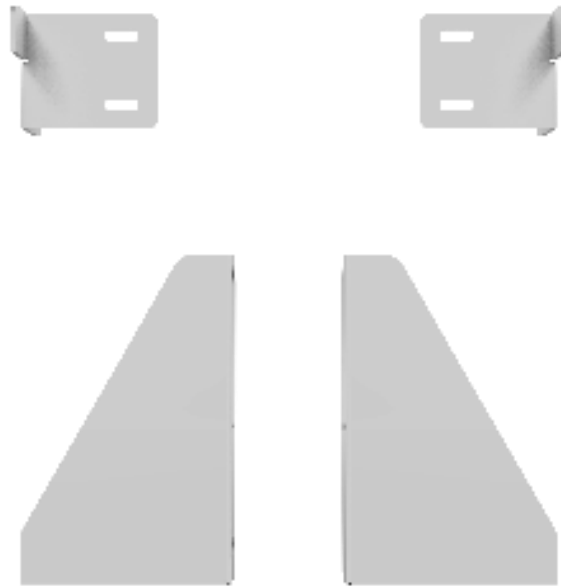
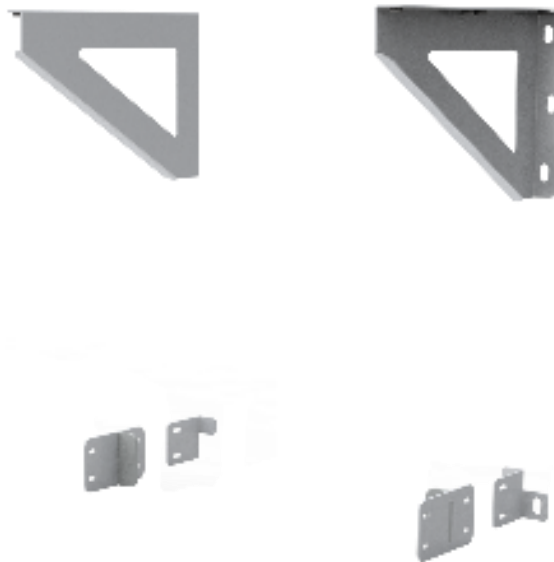


Photo 12: Battery Bracket (V5 BK2)



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CRITICAL COMPONENTS

The following components are considered "critical" in terms of this certification and must be verified during factory inspections. No substitutions or alternate components are allowed unless specifically as stated in this report.

Photo No.	Item No.	Component name	Manufacturer / trademark	Type/model	Technical data	Standard	Mark(s) of conformity
1-2	1	Hybrid Inverter	Sol-Ark	Limitless 8K-LV	PV Input: Max PV Input 13kW, Input Voltage 175~425V, Max Input Current 26A+26A AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 8kW, Max AC Output Current 33.3A, Frequency 60Hz, Power Factor ± 0.9 adjustable Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 180A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.	UL 1741 CSA C22.2. No.107.1-16	cSGSUS (Certificate No.: SGSNA/22/GZ/00049)
1-2	2	Hybrid Inverter	Sol-Ark	Limitless 12K-LV	PV Input: Max PV Input 13kW, Input Voltage 175~425V, Max Input Current 26A+26A AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 12kW, Max AC Output Current 50A, Frequency 60Hz, Power Factor ± 0.9 adjustable Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.	UL 1741 CSA C22.2. No.107.1-16	cSGSUS (Certificate No.: SGSNA/22/GZ/00049)

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1-2	3	Hybrid Inverter	Sol-Ark	Limitless 15K-LV	PV Input: Max PV Input 19.5kW, Input Voltage 175~425V, Max Input Current 26A+26A+26A AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 15kW, Max AC Output Current 62.5A, Frequency 60Hz, Power Factor ± 0.9 adjustable Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.	UL 1741 CSA C22.2. No.107.1-16	cSGSUS (Certificate No.: SGSNA/22/GZ/00049)
3-4	4	Hybrid Inverter	Sol-Ark	Sol-Ark-5K-48-ST	PV Input: Max PV Input 6.5kW, Nominal PV Voltage Range 175~425V, Max Input Current 10A+10A AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 5kW, Max AC Output Current 20.8A@240V, 29.1A@208V, Frequency 60Hz, Power Factor ± 0.9 Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 120A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.	UL 1741 CSA C22.2. No.107.1-16	cSGSUS (Certificate No.: SGSNA/22/GZ/00171)

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3-4	5	Hybrid Inverter	Sol-Ark	Sol-Ark-8K-48-ST	PV Input: Max PV Input 11kW, Nominal PV Voltage Range 175~425V, Max Input Current 18A+18A AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 8kW@240V, 6.9kW@208V, Max AC Output Current 33A@240V, 33.3A@208V, Frequency 60Hz, Power Factor +/-0.9 Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 185A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.	UL 1741 CSA C22.2. No.107.1-16	cSGSUS (Certificate No.: SGSNA/22/GZ/00171)
3-4	6	Hybrid Inverter	Sol-Ark	Sol-Ark-12k-P	PV Input: Max PV Input 13kW, Nominal PV Voltage Range 175~425V, Max Input Current 20A+20A AC Output: Nominal AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 9kW@240V, 7.8kW@208V, Max AC Output Current 37.5A, Frequency 60Hz, Power Factor +/-0.9 Battery: Battery Type LFP, Battery Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 185A, Max Energy Output 61.44kWh, Charge Temperature 2~57°C, Discharge Temperature -18~57°C, 6000 cycles, up to 12 battery packs in parallel.	UL 1741 CSA C22.2. No.107.1-16	cSGSUS (Certificate No.: SGSNA/22/GZ/00171)

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LISTING REPORT/INSPECTION PROCEDURE

Shanghai PYTES Energy Co., Ltd.
PROJECT NUMBER: SH-CERT250504289

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Revised: None

5-6	7	Battery Pack	Pytes	V5°α Plus	Battery: Nominal Capacity 100Ah (5.12kWh) for each pack, Nominal Voltage 51.2Vdc, Max continuous Charge/Discharge Current 75A, Charge Temperature 0~65°C, Discharge Temperature -20~65°C, 6000 cycles, up to 12 battery packs in parallel	UL 1973	cTUVus (Certificate No.: U8 003364 0029 Rev.00)
7	8	Battery Box	Pytes	V-BOX-OC	645mm*395mm*1395mm 4 Battery Modules / Box	UL 9540	Tested with appliance
8	9	Battery Box	Pytes	V-BOX-OC PLUS	655mm*395mm*1416mm 4 Battery Modules / Box	UL 9540	Tested with appliance
9	10	Battery Bracket	Pytes	V5° Bracket	50mm*177.8mm*62.2mm each piece, 4 pieces as a set to hold one Battery Module	UL 9540	Tested with appliance
10	11	Battery Box	Pytes	VR-BOX-IC	681mm*341mm*851mm 2 Battery Modules / Box	UL 9540	Tested with appliance
11	12	Battery Bracket	Pytes	V5 BK1	Upper bracket: 27mm*92mm*145mm Lower auxiliary bracket: 48mm*50mm*60mm	UL 9540	Tested with appliance
12	13	Battery Bracket	Pytes	V5 BK2	Upper bracket: 27mm*87mm*291mm Lower bracket: 53mm*50mm*60mm Connection Board: 27.5mm*60mm*100mm	UL 9540	Tested with appliance

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LISTING REPORT/INSPECTION PROCEDURE

Shanghai PYTES Energy Co., Ltd.
PROJECT NUMBER: SH-CERT250504289

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Revised: None

ANNUAL RE-TESTING OF UNLISTED COMPONENTS

The unlisted components on this page are uncontrolled (not falling under a third party certification program) and require periodic retesting and/or evaluation.

Note to SGS Follow Up Inspector: The inspection office will notify you in writing when these components must be selected and sent to the Lab indicated below for re-evaluation.

Ship the samples to:

The unlisted components covered by this report and are required to be re-tested/evaluated are shown in the following table:

PHOTO #	ITEM #	DESCRIPTION	MFR	TYPE/ MODEL	RATING
VERIFICATION PROCESS					
Test Standard:					
Frequency of Testing:		No. of Test Samples:			
Clause No.	TEST	PARAMETERS			

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MARKINGS

The following markings are required:

Copy of marking plate:

Pytes	
Energy Storage System	
Pi PLUS S8K	
Max. PV Input	13000W
Nominal PV Voltage Range	175-425V
Max. Input Current per MPPT	26A
Nominal AC Output Voltage	120/240V, 120/208V
Max. AC Output Power	8000W
Max. AC Output Current	33.3A
Frequency	60Hz
Power Factor	+/-0.9 adjustable
Battery Type	LFP
Battery Voltage Range	47.5Vdc-57.6Vdc
Battery Max. Charge/Discharge Current	180A
Battery Maximum Energy Output	61.44kWh
Duty cycle	6000 Cycles
Standard Charge Temperature	2°C - 57°C
Standard Discharge Temperature	-18°C - 57°C
Max. Weight	579.48kg
Battery Ingress Protection	IP20
Inverter Ingress Protection	IP65
Max. Efficiency	97.5%
Input Short-circuit Current Rating	10kA
Over Current Protective Device Rating	200A
Output Available Fault Current	146A@RMS
This system is UL 9540 certified under Test Report No. SHES240701540731.	
*Grid Support Interactive Inverter.	
*The system has been evaluated as a multi-part ESS.	
*Suitable for Use in Residential Non-Habitable Spaces.	
*The components of the system:	
Inverter: Sol-Ark Limitless 8K-LV*1 pc	
Battery: Pytes, V5°a Plus *(1~12) pcs	
Battery Box or Bracket (Optional): V-BOX-OC, V-BOX-OC PLUS, V5° Bracket, VR-BOX-IC, V5 BK1, V5 BK2	
      	
Product Serial Number	

1. Label is attached on the side surface of enclosure and visible after installation.
2. IP65 for Inverter, IP20 for Batteries.

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Copy of marking plate:

 Energy Storage System Pi PLUS S12K	
Max. PV Input	13000W
Nominal PV Voltage Range	175-425V
Max. Input Current per MPPT	26A
Nominal AC Output Voltage	120/240V, 120/208V
Max. AC Output Power	12000W
Max. AC Output Current	50A
Frequency	60Hz
Power Factor	+/-0.9 adjustable
Battery Type	LFP
Battery Voltage Range	47.5Vdc-57.6Vdc
Battery Max. Charge/Discharge Current	275A
Battery Maximum Energy Output	61.44kWh
Duty cycle	6000 Cycles
Standard Charge Temperature	2°C - 57°C
Standard Discharge Temperature	-18°C - 57°C
Max. Weight	579.48kg
Battery Ingress Protection	IP20
Inverter Ingress Protection	IP65
Max. Efficiency	97.5%
Input Short-circuit Current Rating	10kA
Over Current Protective Device Rating	200A
Output Available Fault Current	146A@RMS
This system is UL 9540 certified under Test Report No. SHES240701540731. *Grid Support Interactive Inverter. *The system has been evaluated as a multi-part ESS. *Suitable for Use in Residential Non-Habitable Spaces. *The components of the system: Inverter:Sol-Ark,Limitless 12K-LV*1pc Battery:Pytes,V5°a Plus *(1~12)pcs Battery Box or Bracket(Optional):V-BOX-OC,V-BOX-OC PLUS, V5° Bracket, VR-BOX-IC, V5 BK1, V5 BK2	
      	
Product Serial Number 	

1. Label is attached on the side surface of enclosure and visible after installation.
2. IP65 for Inverter, IP20 for Batteries.

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Copy of marking plate:

Pytes	
Energy Storage System	
Pi PLUS S15K	
Max. PV Input	19500W
Nominal PV Voltage Range	175-425V
Max. Input Current per MPPT	26A
Nominal AC Output Voltage	120/240V, 120/208V
Max. AC Output Power	15000W
Max. AC Output Current	62.5A
Frequency	60Hz
Power Factor	+/-0.9 adjustable
Battery Type	LFP
Battery Voltage Range	47.5Vdc-57.6Vdc
Battery Max. Charge/Discharge Current	275A
Battery Maximum Energy Output	61.44kWh
Duty cycle	6000 Cycles
Standard Charge Temperature	2°C - 57°C
Standard Discharge Temperature	-18°C - 57°C
Max. Weight	605.28kg
Battery Ingress Protection	IP20
Inverter Ingress Protection	IP65
Max. Efficiency	97.5%
Input Short-circuit Current Rating	10kA
Over Current Protective Device Rating	200A
Output Available Fault Current	146A@RMS
This system is UL 9540 certified under Test Report No. SHES240701540731.	
*Grid Support Interactive Inverter.	
*The system has been evaluated as a multi-part ESS.	
*Suitable for Use in Residential Non-Habitable Spaces.	
*The components of the system:	
Inverter: Sol-Ark, Limitless 15K-LV*1 pc	
Battery: Pytes, V5* Plus *(1~12) pcs	
Battery Box or Bracket (Optional): V-BOX-OC, V-BOX-OC PLUS, V5° Bracket, VR-BOX-IC, V5 BK1, V5 BK2	
      	
Product Serial Number	

1. Label is attached on the side surface of enclosure and visible after installation.
2. IP65 for Inverter, IP20 for Batteries.

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Copy of marking plate:

Pytes	
Energy Storage System	
Pi PLUS S5KST	
Max. PV Input	6500W
Nominal PV Voltage Range	175-425V
Max. Input Current per MPPT	10A
Nominal AC Output Voltage	120/240V, 120/208V
Max. AC Output Power	5000W
Max. AC Output Current	20.8A@240V, 29.1A@208V
Frequency	60Hz
Power Factor	+/-0.9
Battery Type	LFP
Battery Voltage Range	47.5Vdc-57.6Vdc
Battery Max. Charge/Discharge Current	120A
Battery Maximum Energy Output	61.44kWh
Duty cycle	6000 Cycles
Standard Charge Temperature	2°C - 57°C
Standard Discharge Temperature	-18°C - 57°C
Max. Weight	663.48kg
Battery Ingress Protection	IP20
Inverter Ingress Protection	IP65
Max. Efficiency	97.5%
Input Short-circuit Current Rating	10kA
Over Current Protective Device Rating	63A
Output Available Fault Current	38.4A@RMS
This system is UL 9540 certified under Test Report No. SHES240701540731.	
*Grid Support Interactive Inverter.	
*The system has been evaluated as a multi-part ESS.	
*Suitable for Use in Residential Non-Habitable Spaces.	
*The components of the system:	
Inverter: Sol-Ark-5K-48-ST*1 pc	
Battery: Pytes, V5°a Plus *(1~12) pcs	
Battery Box or Bracket (Optional): V-BOX-OC, V-BOX-OC PLUS, V5° Bracket, VR-BOX-IC, V5 BK1, V5 BK2	
      	
Product Serial Number	

1. Label is attached on the side surface of enclosure and visible after installation.
2. IP65 for Inverter, IP20 for Batteries.

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Copy of marking plate:

Pytes Energy Storage System Pi PLUS S8KST	
Max. PV Input	11000W
Nominal PV Voltage Range	175-425V
Max. Input Current per MPPT	18A
Nominal AC Output Voltage	120/240V, 120/208V
Max. AC Output Power	8000W@240V, 6900W@208V
Max. AC Output Current	33A@240V, 33.3A@208V
Frequency	60Hz
Power Factor	+/-0.9
Battery Type	LFP
Battery Voltage Range	47.5Vdc-57.6Vdc
Battery Max. Charge/Discharge Current	185A
Battery Maximum Energy Output	61.44kWh
Duty cycle	6000 Cycles
Standard Charge Temperature	2°C - 57°C
Standard Discharge Temperature	-18°C - 57°C
Max. Weight	663.48kg
Battery Ingress Protection	IP20
Inverter Ingress Protection	IP65
Max. Efficiency	97.5%
Input Short-circuit Current Rating	10kA
Over Current Protective Device Rating	63A
Output Available Fault Current	38.4A@RMS
This system is UL 9540 certified under Test Report No. SHES240701540731. *Grid Support Interactive Inverter. *The system has been evaluated as a multi-part ESS. *Suitable for Use in Residential Non-Habitable Spaces. *The components of the system: Inverter: Sol-Ark-8K-48-ST*1 pc Battery: Pytes, V5*1 Plus *(1~12) pcs Battery Box or Bracket (Optional): V-BOX-OC, V-BOX-OC PLUS, V5* Bracket, VR-BOX-IC, V5 BK1, V5 BK2	
      	
Product Serial Number 	

1. Label is attached on the side surface of enclosure and visible after installation.
2. IP65 for Inverter, IP20 for Batteries.

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Copy of marking plate:

Pytes	
Energy Storage System	
Pi PLUS S12KST	
Max. PV Input	13000W
Nominal PV Voltage Range	175-425V
Max. Input Current per MPPT	20A
Nominal AC Output Voltage	120/240V, 120/208V
Max. AC Output Power	9000W@240V, 7800W@208V
Max. AC Output Current	37.5A
Frequency	60Hz
Power Factor	+/-0.9
Battery Type	LFP
Battery Voltage Range	47.5Vdc-57.6Vdc
Battery Max. Charge/Discharge Current	185A
Battery Maximum Energy Output	61.44kWh
Duty cycle	6000 Cycles
Standard Charge Temperature	2°C - 57°C
Standard Discharge Temperature	-18°C - 57°C
Max. Weight	579.48kg
Battery Ingress Protection	IP20
Inverter Ingress Protection	IP65
Max. Efficiency	97.5%
Input Short-circuit Current Rating	10kA
Over Current Protective Device Rating	63A
Output Available Fault Current	38.4A@RMS
This system is UL 9540 certified under Test Report No. SHES240701540731.	
*Grid Support Interactive Inverter.	
*The system has been evaluated as a multi-part ESS.	
*Suitable for Use in Residential Non-Habitable Spaces.	
*The components of the system:	
Inverter: Sol-Ark-T2k-P*1pc	
Battery: Pytes, V5°a Plus *(1~12)pcs	
Battery Box or Bracket(Optional): V-BOX-OC, V-BOX-OC PLUS, V5° Bracket, VR-BOX-IC, V5 BK1, V5 BK2	
      	
Product Serial Number	

1. Label is attached on the side surface of enclosure and visible after installation.
2. IP65 for Inverter, IP20 for Batteries.

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Safety Markings

Warning! Avertissement!	Warning! Avertissement!	Warning! Avertissement!
 Hazardous Voltage Circuits Circuits à tension élevée	 Risk of Electric Shock or Serious Injury. Care Shall be taken when entering enclosure - Authorized personnel only. Risque de choc électrique ou de blessure grave. Faire attention en entrant dans l'enceinte - Personnes autorisées uniquement.	 To Reduce the Risk of Injury, read all instructions. Pour Prévenir les blessures, lire toutes les instructions.

DANGER

Charge the battery every six months to reach 90% SOC, in case of long-term storage.
Chargez la batterie tous les six mois pour atteindre un état de charge de 90 %, en cas de stockage à long terme.

ATTENTION!
Read the user's manual carefully before wire connection.
Make sure the ground connection is properly set before use.
Repair work must be carried out by authorized and trained persons only.
Do not place the battery in an area that can be touched by children or pets.
Do not place the battery near open flame or flammable material.
Do not allow the battery to be immersed in or in contact with water or other liquids.
Avoid direct sunlight and humid environment.
Do not dismantle this battery by non-qualified personnel.
Do not drop, crush, or impact the battery; do not cut or spear the battery with a sharp object.
Do not cover or wrap the battery.
Do not sit or place heavy objects on the battery.
If the battery leaks liquid, catches fire or is damaged, switch off the breaker on DC side and stay away from the battery.
Contact your supplier within 24 hours in case of failure.

Danger! High DC voltage inside
Danger! Arc flash & shock hazard

ATTENTION !
Lisez attentivement le manuel de l'utilisateur avant de procéder à la connexion des câbles.
Assurez-vous que la connexion à la terre est correctement arrangée avant l'utilisation.
Les travaux d'entretien ne doivent être effectués que par du personnel autorisé et expert.
Ne placez pas la batterie dans un endroit susceptible d'être touché par des enfants ou des animaux domestiques.
Ne pas placer la batterie à proximité d'une flamme nue ou d'un matériau inflammable.
Ne laissez pas la batterie être immergée ou en contact avec de l'eau ou d'autres liquides.
Éviter la lumière directe du soleil et un environnement humide.
Cette batterie ne doit pas être démontée par du personnel non qualifié.
Ne pas laisser tomber, écraser ou heurter la batterie ; ne pas la couper ou l'entailler avec un objet pointu.
Ne pas couvrir ou envelopper la batterie!
Ne vous asseyez pas et ne placez pas d'objets lourds sur la batterie.
Si la batterie fuit, prend feu ou est endommagée, coupez le disjoncteur de DC côté et éloignez-vous de la batterie.
Contactez votre fournisseur dans les 24 heures en cas de panne.

Danger, tension continue élevée à l'intérieur
Danger, arc électrique et risque d'électrocution

Note:

- The marking is affixed on canopy. SGS NA Listed Mark shall be at least 5 mm high. Other letters shall be at least 2.4 mm high.
- The "CAUTION" shall be at least 3.2mm high; The remaining letters shall not be less than 1.6mm high.
- The S/N number should be pasted on every end product, every S/N number denote the date code or other dating of manufacture.

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ILLUSTRATIONS

The System Manual is as follows with products packaging:

User Manual Energy Storage Systems Pi PLUS Series Version 1.0.

- 1 Safety Instructions
- 2 Overview
- 3 Installation
 - 3.1 Install the Battery
 - 3.2 Connect Ground Cable
 - 3.3 Connecting the Power Cable
 - 3.4 Connecting Communication Cables
 - 3.5 Procedure of Starting/Shut down the Battery
- 4 Inverter Installation
 - 4.1 Packaging List & Storing
 - 4.2 Location Selection and Installation
- 5 System Integration
 - 5.1 Communication Cable
 - 5.2 System Integration
- 6 Connection
- 7 System Monitoring
 - 7.1 V5°α Plus with Sol-Ark Inverters
- 8 Troubleshooting & Maintenance

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SUMMARY OF TEST RESULTS

The following tests were performed:

ANSI/CAN/UL 9540:2023 (Dated June 28, 2023)

<u>Section</u>	<u>Test Description</u>
13	Electrical Spacings and Separation of Circuits
22	Noise Levels
30	Normal Operations Test
32	Dielectric Voltage Withstand Test
33	Impulse Test
34	Equipment Grounding and Bonding Test
35	Insulation Resistance Test
36	Electromagnetic Immunity Tests

Results of the tests indicate the specimens conform to the test criteria that were found to be applicable.

Battery Part:

ANSI/UL1973:2022: Test Report No.64.280.24.60500.01 on January 14th, 2025, which issued by TUV SUD.

ANSI/CAN/UL 9540A: 2019: Test Report of Module Level No.5061924025703 on January 20th, 2025, which issued by TUV SUD.

ANSI/CAN/UL 9540A: 2019: Test Report of Unit Level No. 5061924025704 on May 8th, 2025, which issued by TUV SUD.

PCS Part:

ANSI/UL 1741, CSA C22.2 No.107.1-16:

Test report No. GZES220100105467 for Sol-Ark Limitless 8K-LV, Limitless 12K-LV, Limitless 15K-LV on July 4th, 2023, which issued by SGS.

Test report No. GZES200902856961 for Sol-Ark Sol-Ark-5K-48-ST, Sol-Ark-8K-48-ST, Sol-Ark-12k-P on October 22nd, 2020, which issued by SGS.

System:

Electromagnetic Immunity tests of the system:

Test Report No. WPHM242752 for Pi PLUS S15K, Pi PLUS S12K, Pi PLUS S8K on June 11th, 2025, which issued by Suzhou Institute of Product Quality Supervision and Inspection.

Test Report No. WPHM242753 for Pi PLUS S12KST, Pi PLUS S8KST, Pi PLUS S5KST on June 11th, 2025, which issued by Suzhou Institute of Product Quality Supervision and Inspection.

Noise level tests of the system:

Test Report No. WPHM242750 for Pi PLUS S15K, Pi PLUS S12K, Pi PLUS S8K on June 10th, 2025, which issued by Suzhou Institute of Product Quality Supervision and Inspection.

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LISTING REPORT/INSPECTION PROCEDURE

Shanghai PYTES Energy Co., Ltd.
PROJECT NUMBER: SH-CERT250504289

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Issued: June 24, 2025
Revised: None

Test Report No. WPHM242751 for Pi PLUS S12KST, Pi PLUS S8KST, Pi PLUS S5KST on June 10th, 2025, which issued by Suzhou Institute of Product Quality Supervision and Inspection.

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LISTING REPORT/INSPECTION PROCEDURE

Shanghai PYTES Energy Co., Ltd.
PROJECT NUMBER: SH-CERT250504289

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Issued: June 24, 2025
Revised: None

REVISION TABLE

The following changes have been made to this Report:

<u>Revision No.</u>	<u>Date</u>	<u>Project No.</u>	<u>Revision prepared by</u>	<u>Page</u>	<u>Description of Change</u>
--	2025-06-24	SHES2407015407PV	Bella Liu	None	First issuance

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LISTING REPORT/INSPECTION PROCEDURE

Shanghai PYTES Energy Co., Ltd.
PROJECT NUMBER: SH-CERT250504289

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Issued: June 24, 2025
Revised: None

CONCLUSION

Samples of the products covered by this Report have been found to comply with the applicable requirements of

- Energy Storage Systems and Equipment – ANSI/CAN/UL 9540:2023 Third Edition, dated June 28, 2023

Report Prepared by:

Bella Liu
Project Engineer

Report Reviewed by:

Allen Sun
Local Reviewer

Report Reviewed and Approved by:

Michael Tong
Global Reviewer

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