



# CERTIFICATE OF COMPLIANCE

**Certificate Number:** SGSNA/23/SH/00339

**Contract Number:** 801410

**Certificate Project Number:** SH-CERT231005842

**Certified Product:** Energy Storage System (including Hybrid Inverter / PCS and Battery Packs)

**Trademarks:** PYTES

**Model(s):** Pi L8K, Pi L10K, Pi L12K, Pi S8K, Pi S9K, Pi S10K, Pi S12K, Pi S15K, Pi M5K, Pi M6K, Pi M7.6K, Pi M8K, Pi M10K, Pi S5KST, Pi S8KST, Pi S9KST, Pi S12KST, Pi S5K1P, Pi E12K, Pi E18K, Pi A7.6K, Pi A9.6K, Pi A11.4K

**Technical Data:** See page 2-8

**Certificate Holder:** Shanghai PYTES Energy Co., Ltd.  
No. 3492 Jinqian Rd, Qingcun Town, Fengxian District, Shanghai, 201400, China

*This certificate supercedes previous certificates issued with the same certificate number. Certification is valid when products are indicated on the SGS directory of certified products at [www.sgs.com](http://www.sgs.com) or using the QR code below. The product is certified according to ISO/IEC Guide 17067, Conformity assessment - Fundamentals of product certification, System 3, and in accordance with:*

ANSI/CAN/UL 9540:2023, Third Edition, dated June 28, 2023

Authorized by:

Effective date: 25 April 2025



Mark Lohmann  
Certifier



## Certification Body

Connectivity & Products, a division of SGS North America Inc.  
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## Additional Information:

### Technical Data:

#### Pi L8K

LUXPOWERTEK LXP-LB-US 8K / V5° or V5°α

PV Input: Max PV Input 12kW, Input Voltage 100~500V, Max Input Current 25A/25A

AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 8kW, Max AC Output Current 33.3A@240V, 38.5A@208V, Frequency 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 167A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

#### Pi L10K

LUXPOWERTEK LXP-LB-US 10K / V5° or V5°α

PV Input: Max PV Input 15kW, Input Voltage 100~500V, Max Input Current 25A/25A

AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 10kW, Max AC Output Current 41.6A@240V, 48A@208V, Frequency 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 210A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

#### Pi L12K

LUXPOWERTEK LXP-LB-US 12K / V5° or V5°α

PV Input: Max PV Input 18kW, Input Voltage 100~500V, Max Input Current 25A/15A/15A

AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 12kW@240V, 10.4kW@208V, Max AC Output Current 50A, Frequency 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 250A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

#### Pi S8K

Sol-Ark Limitless 8K-LV / V5° or V5°α

PV Input: Max PV Input 13kW, Input Voltage 175~425V, Max Input Current 26A per MPPT

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: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 180A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

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### Technical Data:

Pi S9K

Sol-Ark Limitless 9K-LV / V5° or V5°α

PV Input: Max PV Input 13kW, Input Voltage 175~425V, Max Input Current 26A per MPPT

AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 9kW, Max AC Output Current 37.5A, Frequency 60Hz, Power Factor ±0.9 adjustable

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 180A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

Pi S10K

Sol-Ark Limitless 10K-LV / V5° or V5°α

PV Input: Max PV Input 13kW, Input Voltage 175~425V, Max Input Current 26A per MPPT

AC Output: AC Output Voltage 120V/240V, 120V/208V, Max AC Output Power 10kW, Max AC Output Current 41.7A, Frequency 60Hz, Power Factor ±0.9 adjustable

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

Pi S12K

Sol-Ark Limitless 12K-LV / V5° or V5°α

PV Input: Max PV Input 13kW, Input Voltage 175~425V, Max Input Current 26A per MPPT

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: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

Pi S15K

Sol-Ark Limitless 15K-LV / V5° or V5°α

PV Input: Max PV Input 19.5kW, Input Voltage 175~425V, Max Input Current 26A per MPPT

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: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 275A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

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## Additional Information:

### Technical Data:

Pi M5K

Megarevo R5KLNA / V5° or V5°α

PV Input: Max PV Input 7.5kW, Nominal PV Voltage Range 120~500V, Max Input Current 14A per MPPT

AC Output: Nominal AC Output Voltage 120V/240V Split Phase, Max AC Output Power 5kW, Max AC Output Current 22.9A, Frequency 60Hz, Power Factor -0.8~+0.8

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 120A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

Pi M6K

Megarevo R6KLNA / V5° or V5°α

PV Input: Max PV Input 9kW, Nominal PV Voltage Range 120~500V, Max Input Current 14A per MPPT

AC Output: Nominal AC Output Voltage 120V/240V Split Phase, Max AC Output Power 6kW, Max AC Output Current 27.5A, Frequency 60Hz, Power Factor -0.8~+0.8

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 135A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

Pi M7.6K

Megarevo R7K6LNA / V5° or V5°α

PV Input: Max PV Input 12kW, Nominal PV Voltage Range 120~500V, Max Input Current 14A per MPPT

AC Output: Nominal AC Output Voltage 120V/240V Split Phase, Max AC Output Power 7.6kW, Max AC Output Current 35A, Frequency 60Hz, Power Factor -0.8~+0.8

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 190A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

Pi M8K

Megarevo R8KLNA / V5° or V5°α

PV Input: Max PV Input 12kW, Nominal PV Voltage Range 120~500V, Max Input Current 14A per MPPT

AC Output: Nominal AC Output Voltage 120V/240V Split Phase, Max AC Output Power 8kW, Max AC Output Current 36.7A, Frequency 60Hz, Power Factor -0.8~+0.8

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 190A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

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### Technical Data:

Pi M10K

Megarevo R10KLNA / V5° or V5°α

PV Input: Max PV Input 13kW, Nominal PV Voltage Range 120~500V, Max Input Current 14A per MPPT

AC Output: Nominal AC Output Voltage 120V/240V Split Phase, Max AC Output Power 10kW, Max AC Output Current 45.8A, Frequency 60Hz, Power Factor -0.8~+0.8

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 190A/210A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

Pi S5KST

Sol-Ark-5K-48-ST / V5° or V5°α

PV Input: Max PV Input 6.5kW, Nominal PV Voltage Range 175~425V, Max Input Current 10A per MPPT

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: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 120A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

Pi S8KST

Sol-Ark-8K-48-ST / V5° or V5°α

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

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: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 185A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

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### Technical Data:

Pi S9KST

Sol-Ark-9K-48-ST / V5° or V5°α

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

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: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 185A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

Pi S12KST

Sol-Ark-12K-P / V5° or V5°α

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

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: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 185A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

Pi S5K1P

Sol-Ark 5K-120V/8K-230V-1P / V5° or V5°α

PV Input: Max PV Input 10.4kW, Nominal PV Voltage Range 150~425V, Max Input Current 26A per MPPT

AC Output: Nominal AC Output Voltage 120V/240V Single Phase, Max AC Output Power 8kW@240V, 4.8kW@120V, Max AC Output Current 33.3A@240V, 40A@120V, Frequency 60Hz

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 190A, Max Energy Output 61.44kWh, Charge Temperature 0~55°C, Discharge Temperature -18~55°C, 6000 cycles, Up to 12 battery packs in parallel

Pi E12K

EG4 IV-8000-HYB-AW / V5° or V5°α

PV Input: Max PV Input 12kW, Input Voltage 120~500V, Max Input Current 25A/25A

AC Output: AC Output Voltage 240V/208V, Max AC Output Power 8kW, Max AC Output Current 33.3A@240V, 38.5A@208V, Frequency 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 167A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

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## Additional Information:

### Technical Data:

Pi E18K

EG4 IV-12000-HYB-AW / V5° or V5°α

PV Input: Max PV Input 18kW, Input Voltage 120~500V, Max Input Current 25A/15A/15A

AC Output: AC Output Voltage 240V/208V, Max AC Output Power 12kW@240V, 10.4kW@208V, Max AC Output Current 50A, Frequency 60Hz, Power Factor 0.99

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 250A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel

Pi A7.6K

ALTENERGY POWER SYSTEM INC., ELS-7.6 / V5° or V5°α

AC Output: AC Output Voltage 240V/208V, Max AC Output Power 7600VA/6600VA, Max AC Output Current 31.7A@240Vac, 31.7A@208Vac, Frequency 60Hz, Power Factor >0.99 (±0.8 adj.)

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 170A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel.

Pi A9.6K

ALTENERGY POWER SYSTEM INC., ELS-9.6 / V5° or V5°α

AC Output: AC Output Voltage 240V/208V, Max AC Output Power 9600VA/8300VA, Max AC Output Current 40A@240Vac, 40A@208Vac, Frequency 60Hz, Power Factor >0.99 (±0.8 adj.)

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 218A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel.

Pi A11.4K

ALTENERGY POWER SYSTEM INC., ELS-11.4 / V5° or V5°α

AC Output: AC Output Voltage 240V/208V, Max AC Output Power 11400VA/10000VA, Max AC Output Current 47.5A@240Vac, 48A@208Vac, Frequency 60Hz, Power Factor >0.99 (±0.8 adj.)

Battery: Voltage Range 47.5Vdc~57.6Vdc, Max Charge/Discharge Current 240A, Max Energy Output 61.44kWh, Charge Temperature 0~57°C, Discharge Temperature -18~57°C, 6000 cycles, Up to 12 battery packs in parallel.

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**Technical Data:**

**Other Ratings:**

IP65 for PCS of Sol-Ark and Megarevo, NEMA 4X for PCS of LUXPOWERTEK, EG4 and ALTENERGY POWER SYSTEM INC., IP55 for Batteries with battery box V-BOX-OC, NEMA 3 for Batteries with battery box V-BOX-NEMA3, IP20 for Batteries with other battery boxes or brackets.

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