



## Explore Outstanding Power Energy Storage Solution



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## ABOUT US

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## Energy Storage Solutions

Tomorrow's Energy



## About Us

**PowerUp** by Yotai is a trusted provider of energy storage systems and EPC services across the ASEAN region.

We are committed to reliability, innovation, and sustainability, delivering integrated solutions that empower businesses and communities to harness clean energy efficiently.

### Our Commitment

Dedicated After-Sales Support & Repair Services  
Ensuring long-term performance and customer satisfaction with rapid, reliable support.

### Regional Presence

 <b>Singapore</b> ASEAN Head Office	 <b>East &amp; West Malaysia</b> Sales & Service Centers	 <b>Shenzhen, China</b> Technical Support & Manufacturing
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-  **Shenzhen, China**  
Technical support & Manufacturing
-  **East & West Malaysia**  
Sales & Service Centers
-  **Singapore**  
Head office



## Applications & Scenarios

Explore Tomorrow's Energy

PowerUp's advanced energy storage solutions serve diverse sectors, enabling reliable power for various applications.



**Residential Sector**

Apartments, Bungalows, Landed Properties

**Power & Utility Plants**

Power Generation, Water Treatment, Solar Farms

**Agriculture Sector**

Smart Farming, PV Systems, Rural Microgrids

**Commercial Sector**

Shopping Malls, Office Buildings, Hotels & Resorts

**Industry Sector**

Manufacturing Plants, C&I Facilities, Data Centers

## Residential ESS Solutions

Empowering Your Home's Energy

Advanced home energy storage systems for reliable backup power and energy independence.



**Backup Power**

Uninterrupted power during outages



**Energy Independence**

Store solar energy for self-consumption



**Smart Monitoring**

Real-time energy management



## Power & Utility Plant ESS

Utility-Scale Energy Storage Solutions

Optimized for power generation, water treatment plants, and solar farms.



### Irrigation Support

GigaWatt -Hour Scale Systems



### Enhanced Reliability

Reliable Cooling for Produce



### Grid Integration

Optimized for Utility Applications

## Agricultural ESS Solutions

Advanced Energy Storage for Farms & Greenhouses

- ◇ Dairy Operations
- ◇ Food Processing
- ◇ Off-Grid Agriculture



### Irrigation Support

Efficient Power for Water Systems



### Cold Storage

Reliable Cooling for Produce



### Rural Resilience

Stable Energy for Farms

## Commercial & Industrial ESS Solutions

Powering Your Business with Advanced Energy Storage

Reliable solutions for commercial and industrial applications.



### High Efficiency

Optimize Energy Usage & Savings



### Robust Security

Advanced Protection & Safety



### Applications

Data centers solar & renewable plants

## Integrated Software Monitoring Platform Data Intelligence and Digital Technologies



Big data processing and analytics



Data mining and predictive insights



Cloud computing and distributed clusters



Internet of Things (IoT) integration

### Real Time Mobile APP

## Smart Stackable Battery

### Product Introduction

- LiFePO4-Lithium Iron Phosphate Battery
- Rechargeable Li-ion Battery system
- The internal battery pack is 51.2V, 100Ah



### Product Features

#### User-friendly

- Modular design and stacked installation, plug and play
- Extendable by mixing new and existing batteries
- One-button battery operation

#### Efficiency

- Extremely low battery self-consumption in sleep mode
- Active battery balancing of 100% SOC in 2 hours
- Store up to 2 years without charging

#### Safe & Reliable

- IP65 rated design
- 5-layer battery safety protection
- Lithium iron phosphate(LFP) battery

### Technical Parameters

Model	PW-BTS E5-DS5	PW-BTS E10-DS5	PW-BTS E15-DS5	PW-BTS E20-DS5
Battery Type	LiFePO4			
Layer	1	2	3	4
Battery Capacity (System Energy)	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Nominal Voltage	51.2V	102.4V	153.6V	204.8V
Voltage Range	45.6~56.8V	91.2~113.6V	136.8~170.4V	182.4~227.2V
Battery Capacity (Ah)	100Ah			
Recommended Charge/Discharge Current	50A			
Max. Continuous Charge/Discharge Current	100A			
Dimension (W×D×H mm)	708x170x680	708x170x1100	708x170x1520	708x170x1940
Net Weight	59kg	110kg	161kg	212kg
Depth of Discharge (DoD)	95%			
Cycle Life	≥6000			
Ingress Protection	IP65			
Communication	RJ45( RS485/CAN) /USB(RS485)			
Operating Temperature	Charge 0~50°C/ Discharge -10~50°C			
Cooling	Natural Cooling			
Installation	Floor Standing			
Parallel Expansion	4~15 units			
Certificates	UN 38.3,IEC 62619,IEC 62040-1.SAA.etc			

## LiFePO<sub>4</sub> Battery

### Product Introduction

- LiFePO<sub>4</sub>-Lithium Iron Phosphate Battery
- Up to 16 units in parallel (256 kWh)
- Easy Installation & Low Maintenance
- LED SoC indicator for easy monitoring



### Product Features

#### Ultra-Long Cycle Life:

Premium LiFePO<sub>4</sub> cells deliver over 8,000 cycles at 90% DoD.

#### Advanced Multi-Protection BMS:

Patented BMS monitors voltage, current, and temperature via CAN/RS485. It safeguards against overcharge, short circuits, and thermal issues for top safety.

#### High-Efficiency Performance:

Supports easy inverter integration and power management in charging 0 - 45°C; discharging -20 - 45°C conditions.

#### User-Friendly Design:

Compact floor-standing unit with LED SoC indicator for easy monitoring. Enables parallel expansion and eco operation in 5-95% humidity for simple setups.

### Technical Parameters

Model	PW-ESS-51.2/314-DC-B
Battery Type	LiFePO <sub>4</sub>
Nominal Voltage	51.2V
Voltage Range	43.2V - 58.4V
Nominal Energy	16kWh
Battery Capacity	314Ah
Charge/Discharge Current	Continuous:100A / Max:200A
Operating Temperature	Charge:0~45°C / Discharge:-20~45°C
Heating/Cooling Function	Supported(Optional)
Communication	CAN / RS485
Safety	Built-in fire-fighting module
Dimension (WxDxH)	540×240×781mm
Net Weight	118kg
Depth of Discharge (DoD)	90%
Cycle Life	≥8000
Expansion	Up to 16 units in parallel (256kWh)
Certifications	IEC 62619, EMC, UN 38.3, MSDS

## Floor Standing ESS

### Features

- Original Patent Design
- Multi-protection from self developed BMS
- Brand new battery for 8000 times cycle life



### Product Features

#### Ultra-Long Cycle Life:

Premium LiFePO4 cells deliver over 8,000 cycles at 95% DOD.

#### Advanced Multi-Protection BMS:

Patented BMS monitors voltage, current, and temperature via CAN/RS485. It safeguards against overcharge, short circuits, and thermal issues for top safety.

#### High-Efficiency Performance:

Supports easy inverter integration and power management in 0-50°C conditions.

#### User-Friendly Design:

Compact floor-standing unit with touch LCD for SOC display. Enables parallel expansion and eco operation in 5-95% humidity for simple setups.

## Technical Parameters

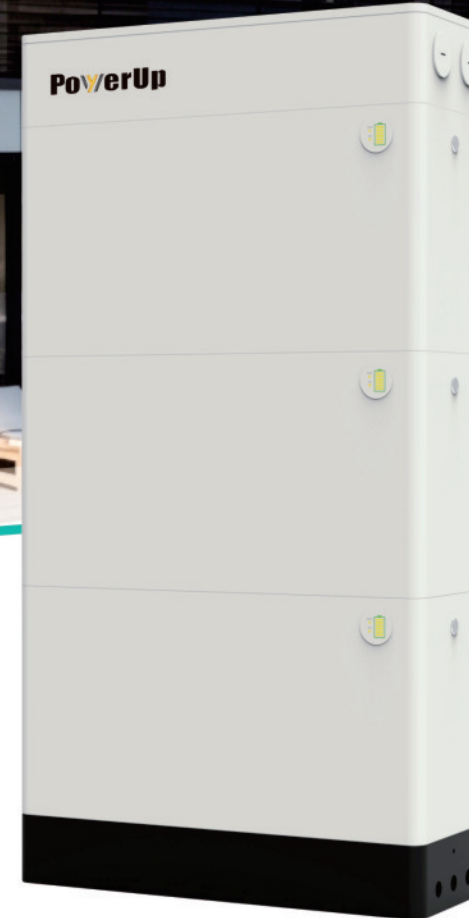
Model	PW-SCAE-C-51.2-670
Battery Type	LiFePO4
Nominal Voltage	51.2V
Voltage Range	43.2V - 58.4V
Nominal Energy	34.304kWh
Battery Capacity	670Ah
Charge/Discharge Current	Continuous:100A / Max:200A
Operating Temperature	Charge:0~50°C / Discharge:-20~60°C
Heating/Cooling Function	Supported
Communication	CAN / RS485 / WIFI(Optional)
Safety	BMS Intelligent Protection
Dimension (WxDxH)	810×400×755mm
Net Weight	238kg
Depth of Discharge (DoD)	95%
Cycle Life	≥8000
Expansion	Parallel Connection Supported
Certifications	UN38.3, MSDS

■ PRODUCTS ARE CONSTANTLY UPDATED, PLEASURE REFER TO THE ACTUAL PRODUCT FOR SIZE AND WEIGHT

## Residential Stackable Battery

### Features

- Advanced Modular LiFePO4 Battery System
- Flexible capacity from 5.12 kWh to 20.48 kWh
- Easy stackable floor-standing installation with base
- LED SoC indicator for real-time monitoring
- Supports up to 15 units in parallel



### Product Features

#### Advanced Multi-Protection BMS

Intelligent BMS continuously monitors voltage, current, temperature and SOC via RS232/RS485/CAN providing comprehensive protection.

#### Flexible Modular Design

Innovative stackable architecture with base allows simple capacity expansion and fast installation.

#### High-Efficiency & Reliable Performance

Wide operating temperature range, IP65 protection and natural convection cooling for stable, quiet operation.

## Technical Parameters

Model	PW-S5-5D			
Battery Type	LiFePO4			
Layer	1	2	3	4
Battery Capacity	5.12Kwh	10.24Kwh	15.36Kwh	20.48Kwh
Nominal Voltage	51.2V	102.4V	153.6V	204.8V
Voltage Range	45.6~56.8V	91.2~113.6V	136.8~170.4V	182.4~227.2V
Battery Capacity	100Ah			
Recommended Charge /Discharge Current	50A			
Max. Continuous Charge/ Discharge Current	100A			
Dimension (W×D×H mm)	600×210×440	600×210×740	600×210×1040	600×210×1340
Net Weight	56	106	156	206
Depth of Discharge (DoD)	90%			
Cycle Life	≥ 6000			
Ingress Protection	IP65			
Communication	RS232, RS485, CAN			
Operating Temperature	Charge: 0~50°C / Discharge: -20~55°C			
Cooling	Natural Convection			
Installation	Floor-standing, Stackable			
Parallel Expansion	Up to 15 units			
Certificates	IEC 62619, CE, UN 38.3, MSDS, CB			

## High Voltage Stackable Battery

### Features

- Safe and Stable
- Exceptional Performance
- Easy Installation
- Flexible Configuration



### Product Features

Features ultra-long life LFP cells and intelligent automotive-grade BMS monitoring

Reliable backup power for any outage with an IP20-rated indoor design.

Fast, plug-and-play setup with flexible wall-mount or floor-standing options.

Expandable 16.07 kWh modular design compatible with major hybrid inverters.

## Technical Parameters

Model	PW-ESS-204.8/314	PW-ESS-256/314	PW-ESS-307.2/314	PW-ESS-358.4/314
Battery Type	LiFePO4			
Layer	4	5	6	7
Battery Capacity (System Energy)	64.3 kWh	80.4 kWh	96.5 kWh	112.5 kWh
Nominal Voltage	204.8V	256.0V	307.2V	358.4V
Voltage Range	172.8~227.2V	216.0~284.0V	259.2~340.8V	302.4~397.6V
Battery Capacity (Ah)	314 Ah			
Recommended Charge/Discharge Current	157 A			
Max. Continuous Charge/Discharge Current	157 A			
Dimension (W×D×H mm)	770x435x1242	770x435x1490	504x435x1738	504x435x1986
Net Weight	505kg	623kg	741kg	859kg
Depth of Discharge (DoD)	95%			
Cycle Life	≥8000			
Ingress Protection	IP20			
Communication	CAN / RS485/WIFI(Optional)			
Operating Temperature	Charge 0~40°C/ Discharge -20~40°C			
Cooling	Natural Cooling			
Installation	Floor Standing			
Parallel Expansion	Max. 4 Sets			
Certificates	MSDS, UN38.3			

## G2S series energy storage inverter REVO residential energy storage inverters

### Key strengths

- Supports grid-connected and off-grid AC coupling functions
- Support intelligent load management (customized)
- Support three-phase and multi-machine parallel connection
- Support BMS remote upgrade function (customized)



### Product family



G2S COLOR SCREEN SERIES



G2S SERIES WITH GENERATOR INPUT



G2S SERIES STANDARD MODEL

**.WITHOUT SCREEN**

R3KL1-G2S	R4KL1-G2S	R5KL1-G2S	R6KL1-G2S	R3KL1A-G2S	R4KL1A-G2S	R5KL1A-G2S	R6KL1A-G2S
R3K6L1-G2S	R4K6L1-G2S			R3K6L1A-G2S	R4K6L1A-G2S		

**.WITH SCREEN**

R3KL1D-G2S	R4KL1D-G2S	R5KL1D-G2S	R6KL1D-G2S	R3KL1DA-G2S	R4KL1DA-G2S	R5KL1DA-G2S	R6KL1DA-G2S
R3K6L1D-G2S	R4K6L1D-G2S			R3K6L1DA-G2S	R4K6L1DA-G2S		

## Technical Parameters

### DC input

Model	R3KL1-G2S	R3K6L1-G2S	R4KL1-G2S	R4K6L1-G2S	R5KL1-G2S	R6KL1-G2S
	R3KL1A-G2S	R3K6L1A-G2S	R4KL1A-G2S	R4K6L1A-G2S	R5KL1A-G2S	R6KL1A-G2S
	R3KL1D-G2S	R3K6L1D-G2S	R4KL1D-G2S	R4K6L1D-G2S	R5KL1D-G2S	R6KL1D-G2S
	R3KL1DA-G2S	R3K6L1DA-G2S	R4KL1DA-G2S	R4K6L1DA-G2S	R5KL1DA-G2S	R6KL1DA-G2S
Max. power (kW)	4.5	5.4	6	6.9	7.5	9
Start-up voltage (V)	100					
Max. DC voltage (V)	550					
MPPT voltage range/rated voltage (V)	80-500/360					
PV/(Isc) (A)	24/24					
Max. input current of each component (A)	16/16					
No. of MPPT	2					
No. of strings per MPPT tracker	1/1					

### AC output

Rated output power (kVA/kW)	3/3	3.68/3.68	4/4	4.6/4.6	5/5	6/6
Max. output power (kVA)	3.3	3.68	4.4	4.6	5	6.6
Max. output current (A)	14.3	16	19.1	20	21.7	28.7
Grid voltage/range (Vac)	230/176~270					
Rate grid frequency (Hz)	50/60					
Power factor	1(0.8leading...0.8lagging)					
THDi	< 3%					
AC grid type	L+N+PE					

### Battery

Battery voltage range (V)	40~58					
Max. charging voltage (V)	58					
Max. charge/discharge current (A)	60/60	72/72	80/80	92/92	100/100	120/120
Communication interface	CAN/485					

### Emergency power output

Rated power (kVA/kW)	3/3	3.68/3.68	4/4	4.6/4.6	5/5	6/6
Rated output voltage (Vac)	230					
Rated output current (A)	13	16	17.4	20	21.7	26
Rated output frequency (Hz)	50/60					
Automatic switchover time (ms)	≤10					
THDu	<2%					

### General data

Battery charge/discharge efficiency	96%
Max. efficiency	97.2%
Europe efficiency	97%
MPPT efficiency	99.9%
Ingress protection	IP65
Noise emission (dB)	<35
Operation temperature (°C)	-25~60
Cooling	Natural
Relative humidity	0 ~95% (Non-condensing)
Operating altitude (m)	2,000 (>2,000 Derating)
Dimensions W*D*H (mm)	455*215*385
Net weight (kg)	20.7
Isolation transformer	/
Standby loss (W)	<15

### Display and communication

Display	/
Communication interface	Yes/Opt/Opt/Yes/Yes
RS485/Wifi/GPRS/CAN/DRM	

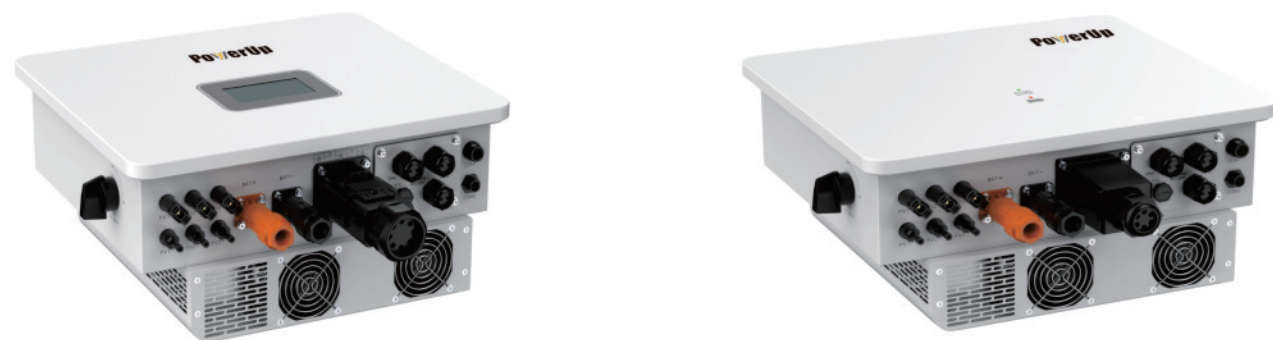
G2S series energy storage inverter  
REVO residential energy storage inverters

Key strengths

- Supports grid-connected and off-grid AC coupling functions
- Support three-phase and multi-machine parallel connection
- Support intelligent load management (customized)
- Optimized EMC design, more stable operation
- Support BMS remote upgrade function (customized)



Product family



G2S COLOR SCREEN SERIES

.WITH SCREEN R8KL1DA-G2S R10KL1DA-G2S

G2S SERIES STANDARD MODEL

.WITHOUT SCREEN R8KL1A-G2S R10KL1A-G2S

Technical Parameters

DC input

Model	R8KL1A-G2S	R10KL1A-G2S
	R8KL1DA-G2S	R10KL1DA-G2S
Max. power (kW)	12	15
Start-up voltage (V)	100	
Max. voltage (V)	550	
MPPTvoltage range/rated voltage(V)	80-500/360	
PV/(Isc) (A)	24	
Max.input current of each component(A)	16	
No. of MPPT	2	
No.of strings per MPPT tracker	1/2	

AC output

Rated output power (kVA/kW)	8/8	10/10
Max output power (kVA)	8.8	10
Max. output current (A)	38.3	43.5
Grid voltage/range (Vac)	230/176~ 270	
Rate grid frequency (Hz)	50/60	
Power factor	1(0.8leading...0.8lagging)	
THDi	< 3%	
AC grid type	L+N+PE	

Battery

Battery voltage range (V)	40~58	
Max. charging voltage (V)	58	
Max. charge/discharge current (A)	160/160	200/200
Communication interface	CAN/485	

Emergency power output

Rated power (kVA/kW)	8/8	10/10
Rated output voltage (Vac)	230	
Rated output current (A)	34.8	43.5
Rated output frequency (Hz)	50/60	
Automatic switchover time (ms)	≤10	
THDu	<2%	

General data

Battery chage/discharge efficiency	95.6%
Max. efficiency	97.2%
Europe efficiency	96.5%
MPPT efficiency	99.9%
Ingress protection	IP65
Noise emission (dB)	<55
Operation temperature (°C)	-25~+60
Cooling	Natural
Relative humidity	0 ~95% (Non-condensing)
Operating altitude (m)	0~2000m (Derating over 2000m)
Dimensions W*D*H (mm)	486×231×530(with generator port)
Net weight (kg)	25.8
Topology	Non-isolated
Standby loss (W)	<15

Display and communication

Display	Optional(colorful touch screen /no screen)
Communication interface RS485/Wifi/GPRS/CAN/DRM	Yes/Opt/Opt/Yes/Yes

Three-phase hybrid inverter  
Supports high power components

Key strengths

- Support BMS (non-standard) remote upgrade.
- Support full power discharge, automatic battery charge and discharge management.
- Compatible with single-phase and three-phase loads.
- Supports high power components.
- Capable of Supporting 100% Unbalanced Loads.



PV string input

Model	R6KH3-P	R8KH3-P	R10KH3-P	R12KH3-P	R15KH3-P
Max. PV input power (kW)	9	12	15	18	22.5
Max. PV voltage (V)	1,000				
MPPT voltage range (V)	180-850				
Full power MPPT voltage range (V)	250-850	330-850	430-850	510-850	425-850
Start-up voltage (V)	125				
Max. input current per MPPT (A)	18/18			20/20	
Max. short-circuit current (A)	25/25			30/30	
No. of MPPT trackers	2				
MPPT number/Max. input strings number	1/1	1/1	1/1	1/1	2/2
Rated input voltage	600				

Technical Parameters

AC Output

Nominal output power to grid (kVA)	6	8	10	12	15
Max. apparent power to grid (kVA)	6.6	8.8	11	13.2	16.5
Max. apparent power from grid (kVA)	13.2	17.6	22	26.4	33
Max. apparent current from grid (A)	19.1	25.5	31.8	38.1	47.6
Nominal output current to grid (A)	8.7	11.5	14.4	17.3	21.7
Max.output current to grid (A)	9.5	12.7	15.9	19.1	23.8
Nominal grid voltage (V)	3W+N+PE, 220 / 380 V; 230 / 400 V; 240 / 415 V				
Nominal grid frequency (Hz)	50/60				
THDi	<3%				

Battery

Max.charging /discharging power (kW)	6.6	8.8	11	13.2	16.5
Battery voltage range (V)	125-600				
Battery Working Voltage Range (V)	150-550				
Min.Full Power Voltage@EPS	160	210	260	310	385
Max.Charging/Discharging Current (A)	50				
Rated.charging /discharging current (A)	40				
Battery type	Lithium and Lead Acid Battery				

ESP Output

Nominal output power (kVA)	8	8	10	12	15
Max. apparent power (kVA)	8.8	8.8	11	13.2	16.5
Nominal output current (A)	8.7	11.5	14.4	17.3	21.7
Max.output current (A)	9.5	12.7	15.9	19.1	23.8
Nominal output voltage (V)	400 ,3W+N+PE				
Nominal output frequency (Hz)	50/60				
THDu	<2%				
Max.efficiency	97.9%	97.9%	98.0%	98.0%	98.1%
Europe efficiency	97.3%	97.4%	97.5%	97.5%	97.5%
MPPT efficiency	99.9%				
Max.battery charge/discharge efficiency	97.0%				

General Data

Ingress protection	IP65
Operating temperature range (°C)	-35-60
Relative humidity	0-100%
Operating altitude (m)	2000m(Derating above 2000m)
Dimensions (W*H*D)	530*560*220mm
Weight	32kg
Cooling	Natural convection
Noise emission (dB)	≤35
Installation	Wall mounted

Supported protections	Island Protection / PV reverse polarity protection / Battery reverse polarity protection / Insulation monitoring / Residual current monitoring / AC over current protection / AC over power protection / Back-up Output Short Protection / Short circuit protection / Island Protection / Battery reverse Polarity / Insulation Resistor Detection
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EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011
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On-grid Standards	Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPIREE:2021, Germany:VDE-AR-N 4105:2018 /DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa: NRS 097-2-1:2017 Edition 2.1, UK:G98/G99/1-6:2022, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999, Hungary:EN50549-1:2019/RFG:2016/ Hungary, Italy CEI0-21, Holland:EN 50549-1:2019/AC:2019 with Netcode elektriciteit:2022 Type A, Belgium:C10/11:2021, France:Arrêté du 9 juin 2020+Arrêté du 31 mai 2021, Denmark:TR 3.3.1:2023-01
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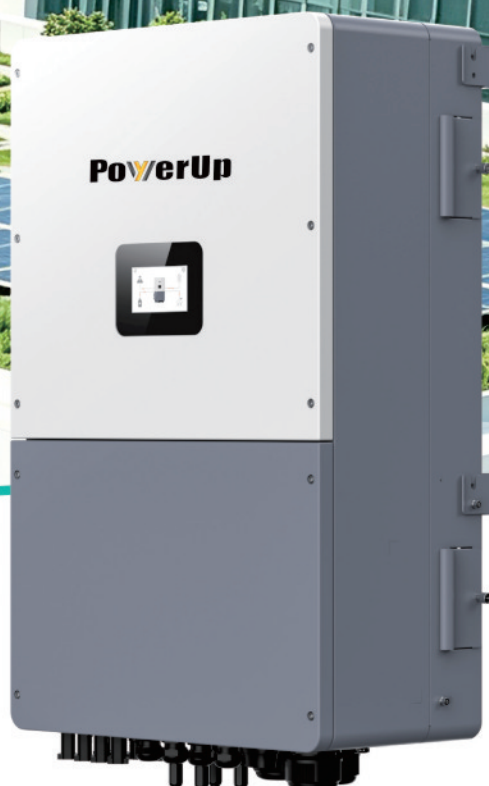
Safety standard	IEC/EN62109-1:2010, IEC/EN62109-2:2011
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Interface	LCD; APP
HMI	LCD; APP
BMS	CAN
EMS/Meter	RS485/RS485
Supported communication interface	WIFI

## C&I Energy Storage Inverter Series Three-phase hybrid inverter(R50KH3)

### Key Strengths

- 75kW PV Input & Wide MPPT
- Dual 80A Battery Ports
- IP65, -35~+60°C Operation
- 4 MPPTs for High-Power Modules
- 100% Unbalanced Load Support



### Product Features

#### High PV Capacity:

Max. PV input power: 75kW, wide MPPT voltage range of 150–850V.

#### Flexible Battery:

Features dual battery ports rated at 80A each, compatible with mainstream 314Ah battery cells.

#### Rugged & Reliable:

IP65 protection ensures reliable outdoor performance in temperatures from -35°C to +60°C.

#### Advanced Tracking:

Integrates 4 MPPTs for multiple PV string configurations, with up to 20A\*2 input current per MPPT and compatibility with high-power PV modules.

#### Versatile Load:

Supports 100% unbalanced loads for enhanced flexibility in asymmetric C&I application.

### Technical Parameters

Model	PW-R30KH3	PW-R40KH3	PW-R50KH3
<b>DC input</b>			
Max. PV input power (kW)	45	60	75
Max. PV voltage (V)	1000		
MPPT voltage range (V)	150~850		
Start-up voltage (V)	180		
Max. input current per MPPT (A)	40/40/40/40		
Max. short-circuit current (A)	60/60/60/60		
No. of MPPT trackers	4		
No. of PV strings per MPPT	2		
Rated input voltage (V)	600		
<b>AC output</b>			
Rated AC output active power (kW)	30	40	50
Max. AC output apparent power	33	44	55
Rated AC output current (A)	45.6	60.8	76
Max. AC output current (A)	50.1	66.9	83.6
Max. continuous AC pass-through (A)	200		
Rated grid voltage (V)	380/400		
Power factor	>0.99 (0.8 Leading ~ 0.8 Lagging)		
Grid type	3W+N+PE		
Rated grid frequency (Hz)	50/60		
THDi	<3%		
<b>Battery</b>			
Max. charging / discharging power	33	44	55
Battery voltage range (V)	150~800		
Max. charging / discharging current	80*2		
No. of battery input	2		
Battery type	Lithium-ion		
<b>Emergency power output</b>			
Rated output power (kW)	30	40	50
Max. apparent power (kVA)	33	44	55
Rated output voltage (V)	380/400, 0.85Un-1.1Un		
Back-up switch time (ms)	<10		
Grid type	3W+N+PE		
THDu	<2%		
<b>General data</b>			
Dimensions W*D*H (mm)	530*280*850		
Weight (kg)	73		
Ingress protection	IP65		
Operating temperature range (°C)	-35~60		
Inverter topology	Non-isolated		
Relative humidity	0~100%		
Operating altitude (m)	4000(>2000 power derating)		
Cooling	Forced air cooling		
Noise emission (dB)	≤65		
Installation	Wall mounted type		
<b>Display and communication</b>			
HMI	APP; touch panel		
BMS	RS485,CAN		
EMS/Meter	RS485		
Communication interface	WIFI or 4G or GPRS RS485		

## Smart 110P PV&ESS All-in-One Cabinet

### Product Introduction

The Ener Hexon® Smart 110P adopts an integrated air-cooled design, incorporating 5 battery PACKs, a 50kW hybrid inverter, BMS, EMS, an intelligent temperature control system, an advanced fire suppression system with precision inhibition and explosion venting, along with cabinet structure and electrical auxiliary components. The system provides a rated battery capacity of 110 kWh.



### Key Features

#### Safe

Intelligent early warning ensures operational safety; precise thermal management extends battery life by 12%.

#### Simple

Occupies only 1.3 m<sup>2</sup> per cabinet. Modular design allows rapid deployment, and factory pre-assembly reduces total costs by 15%.

#### Smart

Cloud-based smart O&M with AI-enhanced remote monitoring and proactive alerts ensure full battery lifecycle management. Multi-mode operation improves profitability.

#### Scalability

Supports parallel expansion for a scalable power range from 50 kW to 300 kW.

### Technical Parameters

Model		PW-YT-DS5T110-PV050-B03
Category	Name	Parameter
PV	Maximum Input Power	96kW
	Startup Voltage	210V
	Maximum PV Voltage	850Vdc
	Rated PV Voltage	620Vdc
	MPPT Operating Voltage Range	330-850Vdc
	Number of MPPTs	4
	Number of Inputs per MPPT	2
DC Parameters	Maximum Input Current (per MPPT)	40A×4
	Cell Type/Battery Type	314Ah/LiFePO4
	Battery Rated Capacity	110kwh
	Nominal Voltage	352Vdc
AC Parameters (Grid-connected)	Charging/Discharging C-rate	0.5P Charge/Discharge
	Cooling Method	Air-cooled
	Rated Power	50kw
	Grid Voltage	400Vac
	Rated Current	140A(DC)
	Rated Grid Frequency	50Hz/60Hz
	Grid Frequency Range	47Hz~52Hz, 57Hz~62Hz
	Total Current Harmonic Distortion	<3%
	Power Factor	> 0.99
	Power Factor Adjustable Range:	0.8 ( leading) ~0.8 ( lagging)
AC Parameters (Off-grid)	AC Off-grid Voltage	380V/400V
	AC Off-grid Frequency	50Hz/60Hz
	Off-grid Output Voltage Distortion	<2%
System Parameters	Cooling Method	Air-cooled
	Fire Protection System	Aerosol
	Anti-corrosion Grade:	C3 ( C4/C5 optional)
	Protection Level	IP54
	Operating Temperature Range	Discharging-20~50°C; Charging0~50°C ( derating above 45°C)
	Storage Temperature	-20~45°C
	Operating Humidity Range	5%~95%
	Installation Method	Floor-standing installation
	Working Condition:	Maximum 2 charges and 2 discharges per day
	System Communication Interface	Ethernet、 4G
	External System Communication Protocol	Modbus RTU/Modbus TCP
	Altitude	3000m ( Derate above 2000 m)
	Dimensions [mm](WxDxH)	Unit Dimensions: 1000x1320 x2145 mm Dimensions with Packaging: 1070 x 1390 x 2285 mm
Weight	Net Weight: 1370 kg Gross Weight (with packaging): 1420 kg	
Certification	MSDS, UN38.3, IEC61000, IEC 62109	

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## Smart 265P Ener Hexon™ Solution265 Light Storage Integration PV&ESS All-in-One Cabinet

### Product Introduction

The Ener Hexon™ Solution265 adopts an integrated air-cooled design, incorporating a power battery cluster, 125kW hybrid PV-storage inverter, BMS, EMS, an intelligent temperature control system, an advanced fire suppression system with precision inhibition and explosion venting, along with cabinet structure and electrical auxiliary components. The system provides a rated battery capacity of 265 kWh and 125 kW output power (European standard version).



### Key Features

Safe Ultra-early thermal runaway warning + multi-dimensional electrical protection + aerosol fire suppression + cabin-level targeted extinguishing. Smart temperature control ( $\leq 5^{\circ}\text{C}$  difference) extends battery cycle life by 12%.

Simple All-in-one modular design occupies only 1.3 m<sup>2</sup> per cabinet. Factory pre-assembly + hand-in-hand parallel expansion (125 kW → 625 kW), reducing transportation and installation costs by 15%.

Smart AI-powered smart balancing + black start + multiple modes (VPP / grid-connected / off-grid). Cloud platform remote monitoring & proactive alerts.

### Technical Parameters

Category	Model	PW-YT-DS5T265-PV125-B01
PV	Name	Parameter
	Maximum Input Power	180kW
	Startup Voltage	180Vdc
	Maximum PV Voltage	1000Vdc
	Rated PV Voltage	600Vdc
	MPPT Operating Voltage Range	180-950Vdc
	Number of MPPTs	10(6)
	Number of Inputs per MPPT	2(3)
	Maximum Input Current (per MPPT)	42A×10 ( 48A×6)
Maximum Short-Circuit Current (per MPPT)	60A×10 ( 60A×6)	
DC Parameters	Cell Type/Battery Type	314Ah/LiFePO4
	Battery Rated Capacity	265kwh
	Nominal Voltage	844.8Vdc
	Charging/Discharging C-rate	0.5P Charge/Discharge
	Cooling Method	Air-cooled
AC Parameters (Grid-connected)	Rated Power	125kw
	Grid Voltage	400Vac
	Rated Current	148A(DC)
	Rated Grid Frequency	50Hz/60Hz
	Grid Frequency Range	47Hz~52Hz, 57Hz~62Hz
	Total Current Harmonic Distortion	<3%
	Power Factor	>0.99
AC Parameters (off-grid)	Power Factor Adjustable Range:	0.8 ( leading) ~0.8( lagging)
	AC Off-grid Voltage	380V/400V
	AC Off-grid Frequency	50Hz/60Hz
System Parameters	Off-grid Output Voltage Distortion	<2%
	Cooling Method	Air-cooled
	Fire Protection System	Aerosol
	Anti-corrosion Grade:	C3( C4/C5 optional)
	Protection Level	IP54
	Operating Temperature Range	Discharging-20~50°C; Charging0~50°C( derating above 45°C)
	Storage Temperature	-20~45°C
	Operating Humidity Range	5%~95%
	Installation Method	Floor-standing installation
	Working Condition:	Maximum 2 charges and 2 discharges per day
	System Communication Interface	Ethernet, 4G
	External System Communication Protocol	Modbus RTU/Modbus TCP
	Altitude	3000m ( Derate above 2000 m)
Dimensions [mm](WxDxH)	1200x1860x2200mm(Package:1270x1930 x 2400mm )	
Weight	Net: 2500 kg Gross (packaged):≈2600 kg	
Certification	MSDS, UN38.3	

**Ener Hexon Aurora 5015**  
Containerized Liquid-Cooled Utility ESS



The Ener Hexon® Aurora 5015 Containerized Liquid-Cooled Utility ESS primarily consists of 314Ah liquid-cooled battery PACKs, a control box, a main control panel, a liquid cooling unit, a liquid cooling pipeline system, a BMS (Battery Management System), a fire protection system, auxiliary power distribution, and more. The system has a nominal energy capacity of 5015.96 kWh, utilizing 314Ah Lithium Iron Phosphate (LFP) battery cells. A single PACK is configured as 1P52S. Each battery cluster is formed by connecting 8 battery PACKs in series. A single system comprises 12 clusters in total. Each is equipped with one control box. The DC side supports multiple parallel branch circuits converging into a centralized PCS (Power Conversion System). The temperature control system features an independent liquid cooling circulation system. The fire protection system employs an aerosol fire suppression + combustible gas detection + explosion-proof ventilation and exhaust + water fire suppression solution. The overall container utilizes a non-walk-in external maintenance design.

The Ener Hexon® Aurora 5015 Containerized Liquid-Cooled Utility ESS can be applied in generation-side, grid-side, and user-side fields, meeting various application scenario needs such as renewable energy consumption, peak shaving and frequency regulation, shared energy storage, independent energy storage, and peak load shifting.

**Key Features: E-S3 Design Concept**

**Safe**

- Utilizes high-safety, long-life, high-efficiency, large-capacity Lithium Iron Phosphate (LFP) batteries;
- Integrates advanced BMS products for real-time monitoring and intelligent management; comprehensive battery protection strategies and fault detection/isolation measures ensure energy storage system safety;
- Combustible gas + temperature + smoke cabin-level detection; total flooding gas fire suppression; integrates six safety protections- pre-warning, detection, prevention, isolation, venting, and suppression - into one system; implements BMS whole-unit linkage protection strategy with ultra-early warning protection control for enhanced safety;
- Unaffected by extreme operating conditions; high protection rating: IP54 (IP55 for battery compartment); corrosion resistance rating C4 or higher.

**Simple**

- Supports centralized topology solution, centralized DC-side convergence; simple topology communication and control logic ensure system stability and reliability;
- Employs 314Ah large-capacity battery cells; PACK uses an extremely narrow 770mm cooling plate; the enclosure uses a standard 20-foot container meeting sea and land transport requirements; single container footprint < 15m<sup>2</sup>; supports expansion and parallel cabinet connection, saving 35% on footprint, resulting in better overall station EPC cost;
- Factory pre-fabricated production supports cost-effective and efficient deployment on-site, effectively reducing construction workload; on-site installation and commissioning efficiency improved by 50%, lowering project costs.

**Smart**

- Efficient liquid cooling temperature control strategy; fully variable frequency liquid cooling units; cluster-level throttling design; temperature difference within Pack < 2.5°C; smooth battery cell temperature fluctuations extend battery service life by 15%;
- Independent dehumidification and cooling air conditioner ensures temperature and humidity control within the cabin to prevent condensation; Supports one-click upgrades for fast maintenance and updates.

**Technical Parameters**

Model		PW-Aurora 5015		
Category	Name	Parameter	Remarks	
Battery Parameters	Cell Type	LFP-3.2V-314Ah		
	Battery Rated Capacity [kWh]	5015.96	@25°C±3°C	
	Nominal Voltage [Vdc]	1331.2		
	Voltage Range [Vdc]	1164.8 ~ 1497.6		
	Charging C-rate	≤0.5CP		
	Discharging C-rate	≤0.5CP		
	Maximum Charging/Discharging Power [kW]	2500	2 units of 1250kW	
	Operating Temperature	Charging [°C]	5 ~ 45	
		Discharging [°C]	0 ~ 45	
	Recommended Ambient Temperature [°C]	25±10		
Cooling Method	Liquid Cooling	50% Ethylene Glyco Aqueous Solution		
System Parameters	Fire Protection System	Aerosol + Water-based Fire Protection		
	Anti-corrosion Grade	C4	C5 optional	
	Lightning Protection Grade	Class II		
	Protection Level	IP54 (IP55 for battery compartment)		
	Operating Temperature Range [°C]	-20 ~ +55	Derating when >45°C	
	Storage Temperature [°C]	-20 ~ +35 (≤6 months)/ -20 ~ +45 (≤1 month)	SOC @20% ~ 50%	
	Operating Humidity Range	0 ~ 95%RH	No condensation	
	Installation Method	Outdoor Installation		
	Working Condition	2 charges and 2 discharges per day		
	System Communication Interface	Ethernet/RS485		
External System Communication Protocol	Modbus TCP/IEC104/IEC61850/Modbus RTU			
Altitude [m]	≤4000	Derating when >3000m		
Dimensions [mm] (L*W*H)	6058*2438*2896			
Weight [T]	Approx.42.5			

**Certification** IEC62619, IEC60730, IEC63056, IEC61000, IEC62477, UN38.3, UN3536

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**66HL5-BDV**  
700-720 W

**Product Introduction**

Bifacial N-type PV Module



JKM700-720N-66HL5-BDV-F2-EN

**12** Year Product Warranty | **30** Year Linear Power Warranty | **1** % First-year Degradation | **0.4** % Annual Degradation Over 30 Years

- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

**N-type Technology**

N-type modules with Tunnel Oxide Passivating Contacts (TOPCon) technology offer lower LID/LeTID degradation and better low light performance.

**Mechanical Load Enhanced**

Certified to withstand:  
5400 Pa front side max static test load  
2400 Pa rear side max static test load

**HOT 2.0 Technology**

N-type modules with JinkoSolar's HOT 2.0 technology offer better reliability and efficiency.

**SMBB Technology**

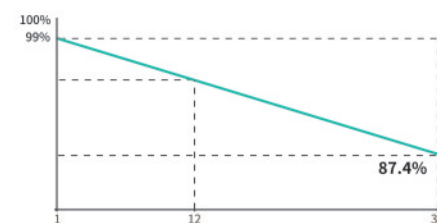
Better light trapping and current collection to improve module power output and reliability.

**Dual-sided Power Generation**

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

**Anti-PID Guarantee**

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.



**Technical Parameters**

**Mechanical Characteristics**

Cell Type	N-Type Mono-crystalline
No. of Cells	132 (66×2)
Dimensions	2384×1303×33 mm
Weight	37.5 kg
Front Glass	2.0 mm, Anti-Reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Output Cables	4.0 mm <sup>2</sup> (+): 400 mm , (-): 200 mm or Customized Length

**Packaging Configuration**

Pallet Dimensions	1325×1121×2496 mm
Packing detail	33pcs/pallets, 594pcs/ 40'HQ Container

**Specifications (STC)**

Maximum Power - Pmax [Wp]	700	705	710	715	720
Maximum Power Voltage - Vmp [V]	40.42	40.53	40.65	40.77	40.89
Maximum Power Current - Imp [A]	17.32	17.40	17.47	17.54	17.61
Open-circuit Voltage - Voc [V]	48.40	48.56	48.73	48.88	49.04
Short-circuit Current - Isc [A]	18.40	18.46	18.53	18.60	18.67
Module Efficiency STC [%]	22.54	22.70	22.86	23.02	23.18
Power Tolerance	0~ +3 %				
Temperature Coefficients of Pmax	-0.29 %/°C				
Temperature Coefficients of Voc	-0.25 %/°C				
Temperature Coefficients of Isc	0.045 %/°C				

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM = 1.5

**Specifications (NOCT)**

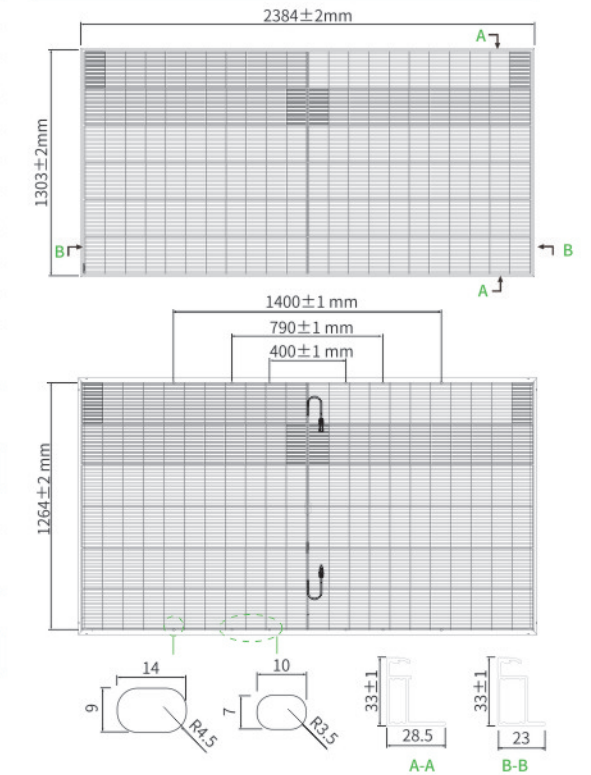
Maximum Power - Pmax [Wp]	528	531	535	539	543
Maximum Power Voltage - Vmp [V]	37.68	37.84	37.97	38.08	38.21
Maximum Power Current - Imp [A]	14.00	14.04	14.09	14.15	14.20
Open-circuit Voltage - Voc [V]	45.97	46.13	46.29	46.43	46.58
Short-circuit Current - Isc [A]	14.85	14.90	14.96	15.01	15.07

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

**Application Conditions**

Operating Temperature [°C]	-40 °C ~ +85 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35 A
Nominal Operating Cell Temperature - NOCT	45±2 °C
Refer. Bifacial Factor	80±5 %

**Engineering Drawings**



Note: For specific dimensions and tolerance ranges, please refer to the corresponding module drawings.

**Electrical Performance**

