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# POWER A GREN WORLD

Trusted Energy Storage Solution Supplier



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## COMPANY PROFILE



26000m<sup>2</sup>

2GWH+

Productive Area

Annual Output

140+

2

Countries Global Reach

R&D Centers

**500+** R&D Staff

**Powered by** 



## POWER A GREEN WORLD



Absen Energy is a holding subsidiary of Absen (stock code: 300389), a listed company, which is mainly engaged in new energy energy storage business, focusing on the research and development, production and sales of household energy storage and industrial and commercial energy storage products. Absen Energy's business layout is global, and its product sales and service network can cover Asia, Europe, Africa, South America and other regions, and are widely used in dozens of countries and regions. We are committed to providing customers with sustainable green energy storage products and services, so that green energy can benefit every individual, family and organization, and become a trusted energy storage solution provider.









Absen Energy

was awarded

the National

High-tech

Enterprise

2024

## COMPANY MILESTONES



"Shenzhen Absen Industrial Co., Ltd."

2001

Prized as a National

2009

2005

fully listed on the A-share market, Stock Code: 300389

2014

Absen success-

2010

Absen Opto-

2016

New heights in 2019: cumulative sales contract exceeded RMB 10 billion

2019

'艾比森' and 'Absen' trademarks recognized as well-known trademarks in China by the State Intellectual Property Office

2022

2020

single-brand

2023

Selected as one of China's 500 Most Valuable Brands by the World Brand

#### **HONORARY CERTIFICATE**



China's 500 Most Valuable Brands 2024 China Excellent Management Company

National High-tech Enterprise

Member of CNESA

Member of EESA

2023 China Energy Storage Industry "Rookie" Award

2023 Energy Storage Industry Innovation Enterprise Award

2023 C&I ESS Benchmark Project Award

2023-2024 C&I ESS Top 10 Excellent Products

2024 "Top 100 New Energy Storage Brands" Award

2024 SNEC Top Ten Highlights "Energy Storage Technology Excellence Award"

2024 Top Ten Residential Energy Storage Brands 2024 Best New Enterprise Award

2024 Best User-side Application Scenario Innovation Project Award









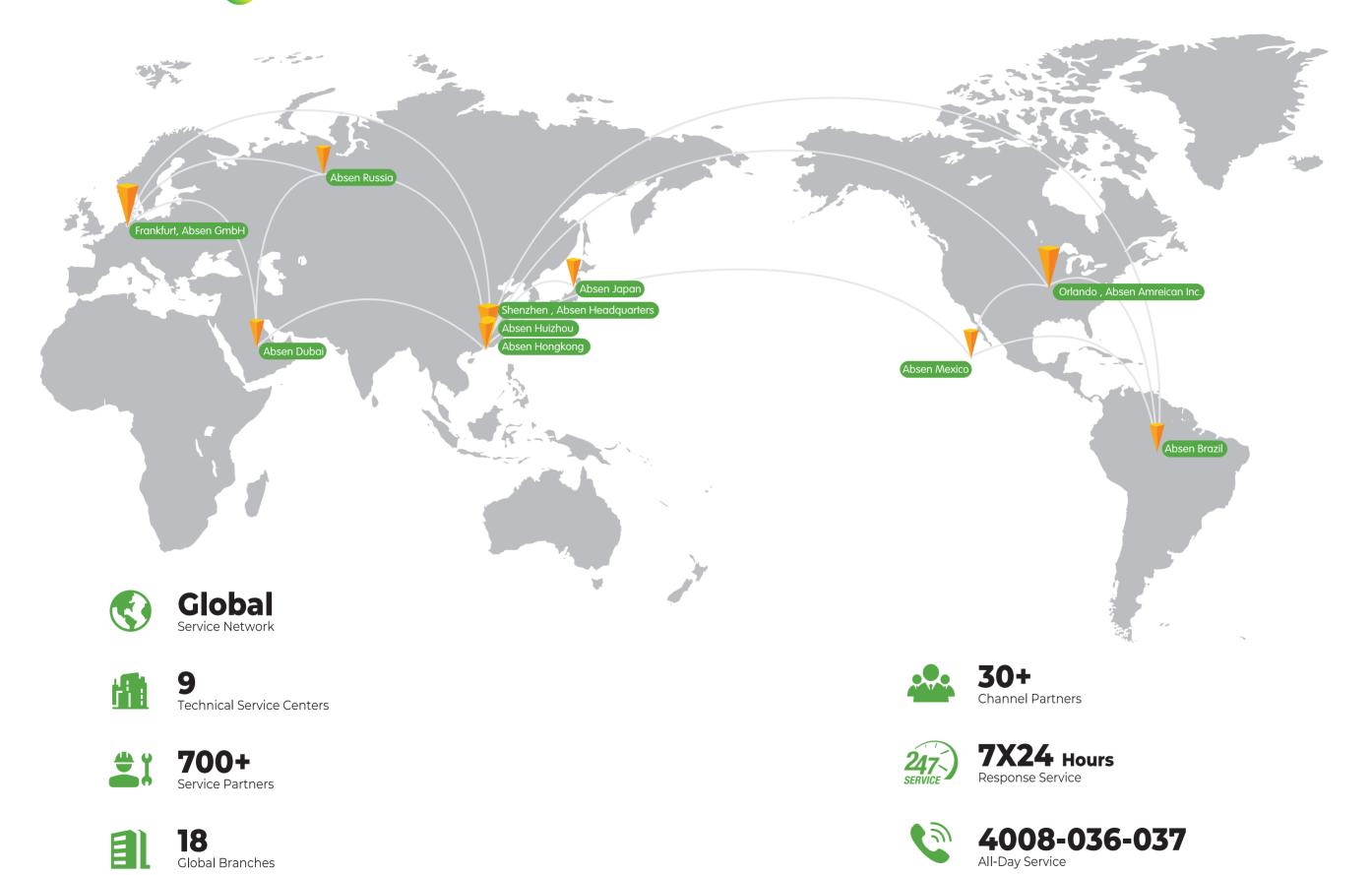








## GLOBAL LAYOUT







Model	PDS-24/20-LP1	PDS-24/40-LP1	PDS-24/61-LP1	PDS-24/81-LP1	PDS-24/102-LP1
PV Input					
Max.Input Voltage (Vdc)			100		
Max PV Input Current (A)			16A*2		
PV Input Voltage Range (Vdc)			10-100		
Max.Input Power (W)	800W*2				
AC Output (ON GRID MODE)					
Rated Output voltage (Vac)	220~240				
Rated Frequency (Hz)			50/60		
Max.Output Current (A)			10.9A (Default 3.6A)		
Max.Output Power (W)		24	00W (Default 800)	W)	
AC INPUT					
Rated AC Input Voltage (Vac)			220~240		
Max. Input Current (A)	9				
Rated Frequency (Hz)	50/ 60				
Max.Input Power (W)	2000				

Model	PDS-24/20-LP1	PDS-24/40-LP1	PDS-24/61-LP1	PDS-24/81-LP1	PDS-24/102-LP1
Battery					
Expansion Battery Number	0	1	2	3	4
Battery Type			LFP		
Rated Battery Voltage (Vdc)			51.2		
Battery Energy (kWh)	2.048	4.096	6.144	8.192	10.24
AC Output (OFF GRID MODE)					
Rated AC output Voltage			220~240		
Rated Frequency (Hz)			50/60		
Max.output Current (A)	9.09	10.9	10.9	10.9	10.9
Max.output Power (W)	2400	2400	2400	2400	2400
System					
IP Rate			IP65		
Dimensions (W*D*H)mm	480*215*540	480*215*780	480*215*1020	480*215*1260	480*215*1500
Weight (kg)	25	42	59	76	93





Model	CX-30/60-AP-S	CX-50/60-AP-S		
System Parameter				
Battery Energy (kWh)	61.44	61.44		
Rated Power (kW)	30	50		
AC Output	400V, 3L+N+PE, 50Hz/60Hz	400V, 3L+N+PE, 50Hz/60Hz		
Off grid switching time (ms)	≤20	≤20		
Communication	Wifi/ 4G/ USB/ CAN/ RS485	Wifi/ 4G/ USB/ CAN/ RS485		
Cooling Method	Air cooling	Air cooling		
IP Rating	IP54	IP54		
Working Temperature (°C)	-20~55	-20~55		
Humidity	5%RH~95%RH	5%RH~95%RH		
Altitude	≤3000m	≤3000m		
System dimensions (W*D*H)mm	650*750*2150	650*750*2150		
Fire Protection System	Aerosol	Aerosol		
Weight (kg)	870	870		
Battery Parameter				
Battery PACK	5.12kWh/100Ah	5.12kWh/100Ah		
Battery System	61.44kWh/100Ah	61.44kWh/100Ah		
Battery Voltage Range (Vdc)	537.6~691.2	537.6~691.2		
Endurance Cycle	6000	3000		
Certification	IEC62619, EN61000-6-1/3, UN38.3, RoHs	IEC62619, EN61000-6-1/3, UN38.3, RoHs		
PV Parameter				
Max DC input power (kW)	42	70		
Max DC input voltage (Vdc)	1000	1000		
Rated input voltage (Vdc)	600	600		
MPPT voltage Range (Vdc)	150~850	150~850		
MPPT number/Number of strings pe	er MPPT tracker 3*6	4*8		
AC Side Parameters				
Rated output active power(kW)	30	50		
Max output current(A)	45.6/ 43.3	76/72.2		
THDi	<3%	<3%		
THDu	<3%	<3%		



Model	CX-100/225-FP-Y
PV (DC)	
Max. PV input power	110kW
PV input voltage rate	312~850V
MPPT	4
Battery (DC)	
Rated battery energy	225kWh
Rated system voltage	716.8V
Battery type	LFP
Battery capacity	314Ah
Series of battery	1P*32S*7S
AC Output	
Rated AC power	100kW
Rated AC current	144A
Rated AC voltage	400V, 3P+N+PE, 50/ 60Hz
THDi	<3% (rated power)
PF	-1 leading to+1 lagging
General Parameters	
Protection level	IP55
Operating temperature	-25~60°C (Derating above 45°C)
Altitude	3000m (>3000m derating)
Communication	RS485/ CAN 2.0/ Ethernet/ dry contact
Dimension (W*D*H)mm	1637*1200*2300
Fire extinguishing system	Aerosol
Cooling Method	Air conditioning cooling
Weight (approx.)	3250kg

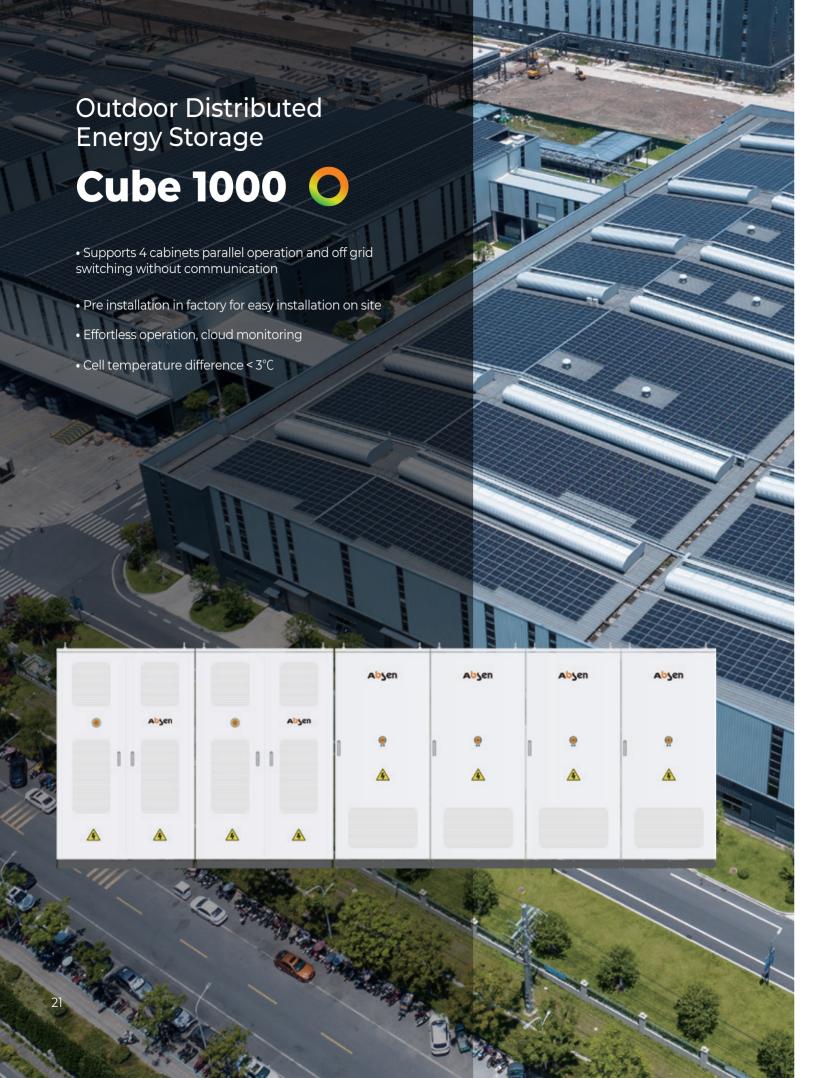
## **Outdoor Distributed Energy Storage**

**Cube 261 O** 

- Intelligent temperature control balance, system efficiency ≥ 89%
- High-efficiency 314Ah battery, 8000 times @ 70% EOL
- Cloud platform interconnection management
- Multi-scenario application, and seamless switching between off-grid and on-grid < 20ms



Model	CX-125/261-FP-Y		
PV (DC)			
Max. PV input power	220kW		
PV input voltage rate	312~850V		
MPPT	8		
Battery (DC)			
Rated battery energy	261kWh		
Rated system voltage	832V		
Battery type	LFP		
Battery capacity	314Ah		
Series of battery	1P*52S*5S		
AC Output			
Rated AC power	125kW		
Rated AC current	180A		
Rated AC voltage	400V, 3P+N+PE, 50/60Hz		
THDi	<3% (rated power)		
PF	-1 leading to+1 lagging		
General Parameters			
Protection level	IP54		
Operating temperature	-25~60°C (Derating above 45°C)		
Altitude	3000m (>3000m derating)		
Communication	RS485/ CAN 2.0/ Ethernet/ dry contact		
Dimension (W*D*H)mm	1612*1350*2300		
Fire extinguishing system	Aerosol		
Cooling Method	Fluid cooling		
Weight (approx.)	3400kg		



PCS Cabinet	GM-500
Rated AC power	500kW (125kW*4)
Rated AC current	180A*4
Rated AC voltage	400V, 3W+N+PE
DC voltage range	580~950V
Isolation transformer (optional)	250/500kVA
STS (optional)	150/300/600kW
Degree of protection	IP54
Cooling method	Intelligent air cooling
Altitude	3000m (over 2000m derating)
Dimensions (W*D*H)mm	1300*1000*2300
Weight (approx.)	2350kg
Certifications	EN50549-1.EN 62477-1.VDE V0126-1-1, NRS 097-2-1, EN 50549-1/-2 NL, IEC61000-6-2/-4
Photovoltaic cabinet	GM-500-PV
Rated power	500kW (50kW*10)
PV input voltage	315-550V
Max.PV input current	10*160A
MPPT quantity	10
Power Factor	-1leading to+1 lagging
THDU	<3% (Rated power)
Degree of protection	IP54
Cooling method	Intelligent air cooling
Dimensions (W*D*H)mm	1200*800*2300
Weight (approx.)	850kg
Certifications	EN/IEC62109-11-2, EN/IEC 61000-6-21-4
Battery Cabinet	Cube-261DC*N
Battery rated energy storage capacity	261kwh
System rated voltage	832V
System voltage range	689V~910V
Battery pack series and parallel connec	ion 1P*52S*5S
Cooling method	Intelligent liquid cooling
Degree of protection	IP54
Dimensions (W*D*H)mm	990*1300*2300
Weight (approx.)	2300kg
Certifications	UN38.3, IEC62619, IEC61000-6-21-4





#### **Efficient management**

- Multi-role perspective management billboard
- Power station self-identification and self-organizing network access
- Remote batch settings make upgrades easier





## Intelligent operation and maintenance

- Online instant consultation and
- Intelligent analysis of power station revenue and operation trends
- Automatic inspection and report generation





#### Peace of mind

- Cloud security guard, early warning of potential risks
- Notify Turtle promptly and accurately locate the fault location
- Cell-level multi-dimensional real-time information





### Innovation architecture

- Integrate AI large models and customize exclusive services
- Cloud service architecture supports unlimited device access
- Quick system function selection and upgrade



## PROJECT CASE



## Zhongshan, Guangdong, China

0.6MW/1.2MWh 2023.11 On-Grid | Peak load shifting Outdoor Cabinet

#### Dongguan, Guangdong, China

1.1MW/2.2MWh 2023.11 On-Grid | Peak load shifting | Indoor Installation



#### Huizhou, Guangdong, China

2.3MW/4.6MWh 2024.05 Grid | EV Charging ESS





Guangdong, China

0.92MW/1.92MWh 2024.12 On-Grid | Peak load shifting | Outdoor Cabinet



#### Myanmar

50kW/60kWh 2024.11 backup power | self-sufficient Indoor installation

#### Bulgaria

50kW/100kWh 2024.11 On-Grid | Self-Sufficient | Indoor Cabinet





## Middle East, Residential backup power system

15kW/30kWh 2024.11 On-grid | self-sufficient Indoor installation

#### Slovenia, Residential Backup power system

10kW/10kWh 2024.12 On-grid | self-sufficient Indoor installation



#### Bohol Island, Philippines Residential Backup Power System

20kw/40kwh+10kw PV 2024.04 On-Grid | Self-Sufficient | Indoor Installation

