





Ruidian Green Energy Technology Co.,Ltd

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🔇 4008-036-037 🛛 🕞 www.absenenergy.com



Trusted Green Energy Supplier

Catalogue





COMPANY PROFILE >>

26000m²

2GWH+

140+ Countries Global Reach

Powered by Absen stock code: (300389.SZ)

Ruidian Green Energy Technology Co., Ltd., the main operator of Absen Energy business, is a majority-owned company under Absen (300389), headquartered at Cloud Park, Bantian, Longgang District, Shenzhen. It specializes in energy storage, focusing on the R&D, manufacturing, and sales of products for residential, commercial, and industrial energy storage system. We are committed to being a trusted green energy provider.

Abjen Energy



As a firm supporter of China's carbon peaking and neutrality goals, Absen Energy is committed to promoting the development of green energy, with sustainability at the center of its corporate purpose. Its intelligent manufacturing facility covers an area of 108,472 m², of which the production area of EES products is up to 26,000 m², the annual production capacity is expected to be up to 2GWH, and has obtained ISO9001 QMS, ISO14001 EMS, QC080000 HSPM system, ISO45001 OH&S management system certifications, and its products have obtained internationally recognized certifications such as UL, CB,CE,UL1973,UL9540A,BIS,ISO9001&ISO14001,andISO14064&ISO14067. Believing that "quality is the cornerstone of an enterprise," Absen Energy adheres to strict material selection criteria and normative manufacturing processes while paying attention to service details to create maximum value for its customers. With a global strategy, Absen Energy's sales and service network covers the United States, Europe, Japan, Australia, Mexico, Brazil, and other countries and regions. We are committed to providing clean, smart, safe, and sustainable energy storage products and services that benefit every individual, family, and organization.

COMPANY MILESTONES >>

2001
Ding Yanhui founded "Shenzhen Absen Industrial Co., Ltd." in Meilin Sub-district, Futian District, Shenzhen
2009

Prized as a National High-tech Enterprise

2011 -----

0004

Absen's intelligent manufacturing facility, Huizhou Absen Optoelectronic Co., Ltd. was founded, occupying an area of 108,000 m²

Strong global presence established, with offices in the U.S., Germany, Japan, the Middle East, Mexico, Brazil, Russia

2017

Launched the smart factory MES project to support the national "Made in China 2025" strategy

2020

The export volume of Absen's displays had been the highest in the industry for 12 consecutive years

2022

The China National Intellectual Property Administration listed "Absen" (艾比森) as a China Well-Known Trademark. Absen applied for the ownership of 690 IP rights, including 160

- 2005

Ding Yanhui visited Saudi Arabia, bringing Absen to the global market

- 2010

Absen changed its name to "Shenzhen Absen Optoelectronic Co., Ltd." and finished its reorganization into a joint-stock company.

Listed on the Shenzhen Stock Exchange (SZSE), stock code: 300389

--- **2016**

Absen China AEO Certificate issued by China's General Administration of Customs

----- 2019

Rolled out a customer-centric and process-oriented structure, reaching new heights in operation and management Cumulative sales contract value exceeded 10 billion yuan

Absen wins copyright infringement lawsuit against Ultravision, marking the first victory for a Chinese LED display manufacturer in a 337 investigation heard by a Texas court

----- 2021

----- 2023

Listed in "China's 500 Most Valuable Brands" by World Brand Lab.







With a global strategy, Absen Energy's sales and service network covers the United States, Europe, Japan, Australia, Mexico, Brazil and other countries and regions.



SERVICE NETWORK >>



Service Scope >>

Solutions

Installation Guidance

Benefits of Our Services >>

Industry-Leading Global Presence

With its high-caliber international team, 14 regional offices and 9 service centers, Absen has been providing excellent service to customers in 130 countries across six continents for 22 years. Absen is now an industry leader with a global service.

Effective After-Sales Service

Absen integrates remote assistance with on-site services to provide customers with standardized services and management. This ensures excellent customer experience and high customer satisfaction, based on its cutting-edge Cloud-based Service Management System (CSMS).

Systematic Training for Partners

Absen follows a holistic approach with systematic training for certification and one-on-one technical guidance for its global service partners. It continuously aims to drive ongoing improvement of their delivery capabilities.







Residential Energy Storage Solution

Residential Energy Storage refers to supplying power to residents through distributed PV power generation and energy storage technology, enabled by solar panels and other renewable power generation facilities, while storing excess power effectively to feed back into the grid. Available in emergencies, it is a cost-effective power source for general household appliances, computers, lighting, telecommunication equipment, etc.



Commercial & Industrial Energy Storage Solution

Utilizing li-ion batteries, local and remote energy management systems (EMS), commercial and industrial energy storage systems can balance and optimize power supply and demand for the grid, batteries and loads. It also allows for easy access to new energy sources such as PV, enhancing feasibility for peak-valley pricing, expansion of distribution network capacity, and electrical security and power quality. At the same time, it is a key tool to enable the deployment of smart grids. It is widely adopted in commercial complexes, factories, hospitals, data centers and other areas.





Residential Energy Storage Product Introduction

Anywhere, plug and play

Nothing complicated as you imagined to reach a Eco-Life. Absen Energy we provide solutions for all scenarios. Apartment Balcony, House and Garage, Anywhere, plug and play.



📒 Trusted Green Energy Supplier

Balcony Plug and play ESS **Balcony S Series**





Abjen



Safety CATL battery inside, low starting voltage (up to 60Vdc PV input)



Hybrid System

support self consumption and feedback to grid



Smart App

Free smart WIFI monitor, can be installed within 30S, user friendly



Integrated with inverter, MPPT charger, AC charger, LiFePo4 battery inside



User Define

Work mode, charging&discharge time and current are programmable



DIY

Plug-and-play, easy installation and smart control and operation

Model	BXS-06/15-LS1	BXS-06/25-LS1	BXS-08/15-LS1	BXS-08/25-LS1	BXS-10/15-LS1	BXS-10/25-LS1		
Off Grid Operation								
Max. PV input power			1200	W				
Rated AC output power			1000	W				
Output peak power (W)			2000W(2	00ms)				
Grid-Tie Operation								
Rated power			600W 800V	/ 1000W				
Mains charging current			0-40A adj	ustable				
AC input voltage range			90-265	VAC				
Input frequency range			50HZ/60H	Z ±3HZ				
AC input connection type			L/N/I	PE				
MPPT Solar Charger								
Rated battery voltage			25.6	V				
Charging current			40A m	iax				
PV input voltage range			36-60	/DC				
PV input power			1200W	max.				
PV charging power			1000W	max.				
Number of PV input tracker			1					
PV input interface			Anderson i	nterface				
Output (AC)								
Nominal output Volt	lt 230Vac, Single Phase							
output frequency			50/60	hz				
Nominal output current			4.35	A				
Power factor			1					
Max. conversion efficiency (DC	/AC)		91.5%	max				
Energy Storage Information								
Nominal battery voltage			25.6V	DC				
Core material			Lithium iron pho	sphate battery				
Energy storage capacity	1	.5KWh 2.5KW	h 1.5KWh	2.5KWh 1.5k	Wh 2.5KWh			
Core cycle	≥€	6000cycles&25°C S	standard charging	and discharging p	orocess@80% SOH			
General Infomration								
IP Rating			IP5	1				
Products dimension,D*W*H (n	nm)		744*420*	160MM				
Product net weight(kgs)		30kg 43kg	30kg	43kg 30	kg 43kg			
Product gross weight(kgs)		31kg 45kg	31kg	45kg 31	kg 45kg			
Environment								
The noise			60dB Max (1 meter)				
Humidity		5% to 9	95% Relative Humi	dity(Non-conden	sing)			
Operating temperature			-10°C to	50°C				
Storage temperature			-15°C to	60°C				
Certification								

IEC 62619;IEC 61000;UN3480;MSDS;ETSI EN301 489;ETSI EN 300 328;IEC 62311;EN 50665;IEC 62040;EN 62407;UN38.3



All In One Residential Energy Storage(Single Phase) **Pile S Series**





Safe&Reliable CATL high performance LFP battery



Interconnection No exposed cables



High Efficiency Up to 97.6%



All in one design Easy installation and convenience



Economical&Efficient Save Capex, expanding as required



Anti-interference DC/AC Surge protection

Model P	XS-36/51-LK1	PXS-36/102-LK1	PXS-36/153-LK1	PXS-36/204-L	K1 PXS-50/	51-LK1 PXS	-50/102-LK1	PXS-50/153-LK1	PXS-50/204-LK1
PV String Input									
Nominal Voltage					400	VC			
MPPT Voltage Range					80V-5	560V			
Start Voltage					150	V			
Number of MPPT Track	er				2				
Strings Per MPPT Track	er				1				
Max. Input Current Per	MPPT				15	A			
AC Output (Grid)									
Nominal AC Output Po	wer		3680W					5000W	
Nominal AC Voltage					230	Vac			
Max. Output Current			16A					22A	
Max. Input Current					32	A			
Battery Input									
Battery Type					LFP (Lif	ePO4)			
Nominal Battery Voltag	ge				48	V			
Max. Charging Current			50A					100A	
Max. Discharging Curre	ent		80A					100A	
Battery Specifications	s								
Energy Capacity		5.12KWh	10.24KWh	15.36KWh 2	20.48KWh	5.12KWh	10.24KW	h 15.36KWh	20.48KWh
Nominal Voltage					51.	2V			
Cycle Life					10000	cycle			
Modules Connection					Мах	κ. 4			
Power Consumption					<2	W			
Warranty					10 ye	ears			
AC Output (Backup)									
Max. Output Apparent	Power				4000VA	5000VA			
Max. Output Current					16A	20A			
Nominal Output Voltag	ge				230V	230V			
Efficiency									
Max. PV Efficiency					97.6	0%			
Euro. PV Efficiency					97.0	0%			
General Specification	s								
Products dimension,W	*D*H (mm)	540*240*1080mm	540*240*1570mm 81	.0*240*1570mm 108	0*240*1570mm	540*240*1080mm	1 540*240*1570r	nm 810*240*1570mm	1080*240*1570mm
Weight		86KG	140KG	194KG	248KG	86KG	140KG	194KG	248KG
Operating Temperature	e Range			-10 to 50°C (charging / -	10 to 50°C d	lischarging		
IP Grade					IPe	65			
Topology		Battery Isolation							
Communication				F	RS485/CAN2	2.0/WIFI/4G			
Display					LCD/	APP			
Certification & Standar	ď	1	EC 62109;IEC61	L000;IEC60529	;IEC 60068;	IEC61683;II	EC62116;IE	C61727;EN5054	Э;
			AS 4777.2;NRS	6 097;VDE-AR-	N-4105;CEI	0-21;G98;G9	9;C10/C11;	UN38.3;UL1973	

Up to two battery packs in a cluster

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All In One Residential Energy Storage(Triple Phase) **Pile S Series**





Safe&Reliable CATL high performance LFP battery



UPS function

10KW 3 phase backup output, on/off grid switching time is less than 20ms



Increase the power input of PV

20KW PV input. 10KW charging and 10KW AC output



Various Applications EMS included, it is suitable for various applications

Model	PXS-100/102-LK3	PXS-100/204-LK3	PXS-100/306-LK3	PXS-100/408-LK3				
PV String Input								
Nominal Voltage		7	20V					
MPPT Voltage Range		140	/-1000V					
Start Voltage		2	.00V					
Number of MPPT			2					
Strings Per MPPT			1					
Max. Input Current Per MPPT			15A					
AC Output (Grid)								
Nominal AC Output Power		1	0kW					
Nominal AC Voltage		40	00Vac					
Nominal Output Current		1	4.5A					
Battery Input								
Battery Type		LFP (_iFePO4)					
Nominal Battery Voltage		5	1.2V					
Max. Charging Current		1	60A					
Max. Discharging Current	200A							
Battery Specifications								
Energy Capacity	10.24KWh	20.48KWh	30.72KWh	40.96KWh				
Nominal Voltage		5	1.2V					
Cycle Life		100	00cycle					
Modules Connection		Μ	ax. 8					
Warranty		10	years					
AC Output (Backup)								
Nominal AC Output Power		9	2kW					
Max. AC Output Power		1	OkVA					
Nominal Output Current		1	3.3A					
Nominal Output Voltage		2	00V					
Efficiency								
Max. PV Efficiency		9	7.6%					
Euro. PV Efficiency		9	7.0%					
General Specifications								
Products dimension,W*D*H (mm)	540*240*1960mm	1080*240*1960mm	1620*240*1960mm	2160*240*1960mm				
Weight		157kg 265kg	373kg 481kg					
Operating Temperature Range		0 to 50°C charging /	-10 to 50°C discharging					
IP Class		I	P65					
Topology		Batter	/ Isolation					
Communication		RS485/CA	N2.0/WIFI/4G					
Display		LC	D/APP					
Certification & Standard IEC	62619;UN38.3;UL1973;IE	C 60068;IEC 61000;IEC 61	583;IEC61727;IEC62116;EN	I 50549;VDE-AR-N-4105;CEI-02				

Up to two battery packs in a cluster



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Wall-Mounted **Residential Battery**

Ebox Series

 \checkmark

Safe&Reliable Lithium Iron Phosphate(LFP) battery

Smart and Easy Operation Supporting RS485/CAN remote monitoring



Absen

Perfect Compatibility Compatible with branded inverters



Space Saving Wall mounted installation, flexible and adaptable to the home

Model	EX-5.1-L	EX-10.2-L					
Nominal Valtage	51.2V	51.2V					
Nominal Capacity	5.12KWh	10.24KWh					
Nominal Charge/Discharge Current	50A	100A					
Max Charge/Discharge Current	100A	200A					
Peak Current	200A@3sec	400A@3sec					
Battery Type	LiFePO4						
Cycle Life	6000@80%DOD, 25°C/0.5C						
Structure							
Dimension(W*D*H)	520*141.5*470mm	590*142*800mm					
Weight	47.2Kg	96.5Kg					
IP Grade	IP65						
Scalability	1*N (N≤16PCS)						
Installation	Wal-mounted/Floor						
Working Environment							
Charge Temperature	-20°C~55°C						
Discharge Temperature	-20°C~60°C						
Communication							
Communication Port	RS485/CAN						
Display	SOC Status Indicator, LED Indicator						
Certifications							
CB, IEC62619, UKCA,CE-EMC, CE-GPSD, EN61000-6-1/2/3/4, EN62619, UN38.3, MSDS							

Warrenty

10years





Ultra thin Wall-Mounted **Residential Battery**







1.5

Safety BYD LiFePO4 battery, more stable and safe



High Efficiency

Intelligent BMS equipped inside to maintain the battery always work at best condition .



Perfect Balance

With equalizer can balance each lithium cell voltage difference as small as 0.05V in a very short time



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Space Saving

Wall mounted installation, flexible and adaptable to the home

Smart App

With Bluetooth communication function, the operating status information of lithium battery pack can be queried through the mobile phone APP .



Model	EX-6.6-L
Battery Type	LiFePO
Total Energy	6.656KW
Usable Energy(90%DOD)	5.990KW
Nominal Voltage	51.2V
Fast Charge Voltage	57.6V
Float Charge Voltage	56.0V
Low DC Cut-off Voltage	46.8V
Max.continue discharge current	100A
Max.pulse discharge current	150A 15
Max.continue charge current	65A
Scalable	1~15 in
Communication	CAN,RS
Cycle life	>8000
Terminal	M8
Storage temperature	0°C~3
Storage duration	6 mont
Safety standard	UN38.3
IP degree	IP44
Protection	
Protection	Overcha protecti
Ambient	
working Temperature	-10°C~
Humidity	0~95%
Dimension	
L*W*H (products size) mm	1090*68
L*W*H (package size) mm	1150*72
Weight(NW Kg)	78.6Kg
Weight(GW Kg)	97.2Kg
Certification	

IEC62619;UN38.3;MSDS;EN IEC61000



SB
1
Vh
Vh
ec.
parallel
485
Cycles@(+25°C,0.5C,90%DOD,60%EOL)
0°C
ns at 25°C
MSDS
arge protection、Overdischarge protection、Overcurrent on、Shortcircuit protection、Overtemperature protection
+50°C
(no condensation)

85*120mm

20*205mm (UN wooden cases)



Low-Voltage Stackable Residential Battery **Pile Series**





Module Design Support 1~4 modules



Perfect Compatibiliy Compatible with branded inverters







Smart and Easy Operation Supporting remote monitoring via RS485/CAN

Model	PX-5	.1-L	PX-10.	2-L PX-	15.3-L	PX-20.4-L
Nominal Voltage(Vdc)			51	1.2		
Nominal Capacity(KWh)	5.12	2	10.24	15.36	20.4	48
Working Voltage Range (Vdc)			44.8~	56.16		
Charge Voltage(Vdc)			58	3.4		
Nominal Charge/Discharge Current(A)			5	60		
Max. Charge/Discharge Current(A)			10	00		
Peak Current(A)	200@	3sec	200@3sec	200@3sec	200@	3sec
Cycle Life			6000@80%D	OD,25°C/0.5	С	
Structure						
Dimension(W*D*H)(mm)	600*210*440	600)*210*740	600*210*1	040	600*210*1340
Weight(Kg)	57.2	2	106.9	156.6	206	i.3
IP Rating			IP	65		
Installation			Stackir	ng type		
Working environment						
Charge Working Temperature(°C)			-20~	·55°C		
Discharge Working Temperatue			-20~	60°C		
Altitude(M)			<2	500		
Humidity(RH)			5-95%(w/o	condensing)		
Communication						
Communication Port			RS48	5,CAN		
Diplay		SOC	status Indica	itor, LED Ind	icator	
Certification						
CB, IEC62619, CE-EMC, EN61000-6-1/2/3	3/4;UKCA;UN38.3	;MSD	S			



CB MUN38.3 EMC LKMSDS

High-Voltage Stackable Residential Battery Pile Series





Module Design Supportting 3~10 modules



Safe&reliable Lithium Iron Phosphate(LFP) battery





Perfect Compatiblity Compatible With branded inverters

Nominal Voltage(Vdc)										
		51.2								
Nominal Capacity(KWh)		7.68	10.24	12.80	15.36	17.92	20.48	23.04	25.60	
Rated Voltage (Vdc)		153.6	204.8	256	307.2	358.4	409.6	460.8	512	
Operating Voltage Rang				129.6~	561.6					
Nominal Charge/Discha	rge Current(A)			25	5				
Max. Charge/Discharge	current(A)				50)				
Peak Current(A)					100@	3sec				
Series Connection					3~10	pcs				
Cycle Life				600	0@80%DC	D,25°C/0.	5C			
Structure										
Dimentsions(W*D*H)(m	m)	600*210*870 60	00*210*1030 600	0*210*1190 600	*210*1350 6	500*210*15	10 600*210*1670	600*210*1830 60	0*210*1990	
Weight(kg)		103.5	130	156.5	183	209.5	236	262.5	289	
High-Voltage Compartm	nent Dimensio	ons(mm)/weight	eight(kg) 600*210*250/23							
IP Rating					IP6	5				
Installation					Stackin	g type				
Working environment										
Charge Working Temper	rature(°C)				-20-5	55°C				
Discharge Workding Ter	nperatue(°C)				-20-6	50°C				
Altitude(M)					<25	00				
Humidity(RH)				5-!	95%(w/o c	ondensing	g)			
Communication										
Communication Port	ommunication Port RS485,CAN									
Diplay	SOC status Indicator, LEDIndicator									
Warranty					10 yea	irs				
Certification										

CB, IEC62619, CE-EMC, EN61000-6-1/2/3/4; EN62040, IEC62040; UN38.3, MSDS

CB MUN38.3 EMC LAMSDS



HOT AIR AEROSOL FIRE EXTINGUISHER

The energy storage system is equipped with a breakthrough aerosol fire suppression device, boasting ultra-high efficiency and reliability. Its compact size, rapid response, and eco-friendly features make it ideal for enclosed spaces like battery compartments. Invest in our ESS today for top-of-the-line fire protection technology to ensure the safety of personnel and property.



3-10 Module Stackable → 153.6V-512V High Voltage

- Higher Conversion Efficiency
- Increased Independence from the Grid
- Better Suitable for Peaking Applications





Abjen Energy Rack Type Residential Battery **Unity Series** 📕 🔊 📕 📕 🗚 🖌 🚺 📕 Absen 🔳 Absen 👔

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Safe&Reliable Lithium Iron Phosphate(LFP) battery



Scalability Maximum 16 in Parallel





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Perfect Compatibility Compatible with branded inverters

Model	UX-5.1-LVB
Nominal Valtage	51.2V
Nominal Capacity	5.12KWh
Nominal Charge/Discharge Current	50A
Max Charge/Discharge Current	100A
Peak Current	200@3sec
Battery Type	LiFePO4
Cycle Life	6000@80%DOD, 25°C/0.5C
Structure	
Dimension(W*D*H)	550*440*130mm
Weight	47.2Kg
IP Rating	IP20
Scalability	≤16PCS
Installation	Rack/Wal-mounted/Cabinet Type
Working Environment	
Charge Temperature	0°C~55°C
Discharge Temperature	-20°C~60°C
Altitude	<2500m
Humidity	5%~95% (No condensation)
Communication	
Communication Port	RS485/CAN
Display	SOC Status Indicator, LED Indicator
Certifications	
CB, IEC62619, UL1973, UL9540A, UKCA, CE-EMC, C	E-GPSD, EN62619, UN38.3, MSDS
Warrenty	

10years



CB 🚾 🞑 UN38.3 🕢 EMC KK



Supporting Parallel Connection A



Supporting load grading





DC reverse protection, AC anti reverse current

Model	RX-3.0-LM1	RX-3.6-LM1	RX-4.0-LM1	RX-4.6-LM1	RX-5.0-LM1	RX-6.0-LM1
Input parameters (PV)						
Max Capacity		4.6KW	6	KW	7KW	I
Max DC voltage			5	50V		
MPPT voltage range			125	~500V		
MPPT number / maximum r	number of par	allel group se	ries 2	2/1		
Output parameters (AC)						
Output rating	3KVA	3.6KV/	A 4KVA	4.6KVA	5KVA	6KVA
Max output current		16A		20A	26/	4
Power grid voltage range 230V/176~270V						
Power grid voltage frequency 50Hz/60Hz						
Power Factor 0.8lagging~0.8 leading						
Battery parameters						
Grid connection type 40V~58V						
Max charging voltage			5	8V		
Max charging/ discharging	current 95/	/62.2A 95/ ⁻	75A 95/83	3.3A 95/95.8	8A 95/104.2	2A 95/110A
Battery type		LiF	ePO4 battery/	lead-acid batte	ery	
Communication			CAN/F	RS485		
EPS						
Power rating	3KVA	3.6KV	A 4KVA	4.6KVA	5KVA	6KVA
Rated output voltage			23	80V		
Rated output current	13A	16A	17.4A	20A	21.7A	26A
Rated output frequency			50H:	z/60Hz		
System parameter						
Dimensions (W*D*H)			550*20	0*515mm		
Weight			2	5Kg		
Battery charging and discha	arging efficien	су	95	5.0%		
Certifications	IEC	C/EN62109-1/-	2,IEC/EN6247	7-1,IEC/EN 610	00-6-1,IEC/EN	61000-6-3,
		So	uth Africa NRS	097-2-1:2017.1	JK G98.G99	





Supporting storing energy from diesel generator



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DC reverse protection, AC anti reverse current



Supporting load grading



IP65 level, noise<35dB

Model	RX-6.0-HM3	RX-8.0-HM3	RX-10.0-HM3	3RX-12.0-HM3	3RX-15.0-H	IM3
Input parameters (PV)						
Max Capacity	9KW	12KW	15KW	18KW	22.5KW	
Max DC voltage			1000V			
MPPT voltage range			180~850V			
MPPT number / maximum number of paralle	l group series	;	2/1			
Output parameters (AC)						
Output power Rating	6KVA	8KVA	10KVA	12KVA	15KVA	
Max output current	8.7A	11.5A	14.4A	17.3A	21.7A	
Power grid voltage range			400V/360~44	40V		
Power grid voltage frequency			50Hz/60Hz			
Power factor			0.8lagging~(0.8 leading		
Battery parameters						
Battery voltage range			125V~600V			
Maxcharging voltage			600V			
Max charging/ discharging current	50A	50A	50A	50A	50A	
Battery type		Lithium-bat	tery / lead-ac	id batteries		
Communication			CAN/RS485			
EPS						
Power rating	6.6KVA	8.8KVA	11KVA	13.2KVA	16.5KVA	
Rated output voltage			400V			
Max output current	8.7A	11.5A	14.4A	17.3A	21.7A	
Rated output frequency			50Hz/60Hz			
System parameter						
Dimensions (W*D*H)			530*200*60	Omm		
Weight			29Kg			
Battery charging and discharging efficiency	96.5%	96.6%	96.7%	96.8%	, D	96.9%
Certifications	IEC/EN62109	-1/-2,IEC/EN6	2477-1,IEC/EN	V 61000-6-1,IE	C/EN 61000)-6-3,
	E	Europe:EN505	49-1, German	y:VDE4105/0	124,	

UK:G99, South Africa:NRS097-2-1:2017



PRODUCT INTRODUCTION >>

Comprehensive C&I ESS Solutions For All Scenario

• Keep your business ahead of the curve with our cutting-edge commercial ESS technology. From increased efficiency to reduced costs, the benefits are endless.

• Whether it's for large-scale industrial operations or small commercial settings, Absen's energy storage solutions offer a flexible and adaptable solution to meet the diverse needs of clients.













Electric vehicle charging stations Large-scale energy storage projects

Outdoor Distributed Energy Storage (Air-cooling) **Cube Series**

Abyen

Absen



Safe&Reliablet CATL high performance LFP battery



Easy installation Pre-installed in factory for easy installation on site



Economical&Efficient Save Capex, expanding as required



Double fire suppression system design

対転



Smart APP Effortless operation, cloud control



Air cooling Efficient and energy-saving HVAC design

Model	CX-50100-
Cell type	LiFePO4
Capacity of battery	102.4kWh
Nominal Voltage	512V
Operating voltage range	448V~565
Charge/Discharge rate	Max.0.5C
D.O.D.	90%
PV side	
Max. Input Voltage	1000V
MPPT Voltage Range	350V~800
Max. Current per MPPT	36A
Number of MPPT	3
Number of Inputs Per MPPT	2
Battery Side of PCS	
Max. Input Voltage	750V
Min. Input Voltage	350V
DC Voltage at Nominal Operation	500V~750
Max. DC Current	55A
Max. DC Input Power	55kW
Number of DC Inputs	2
AC Side(On Grid)	
Nominal AC Output Power	50kW
Max. AC Output Power	55kVA
Max. AC Current	80A
Nominal AC Voltage	400V
AC Voltage Range	340V~440
Nominal Grid Frequency/Frequency Range	50/60Hz±
THDv	<3%(100%
Adjustable PF Range	-1(Lagging
AC Side(Off Grid)	
Nominal AC Voltage	230/400V
THDv	<3%(Linea
Nominal Grid Frequency/Frequency Range	50/60Hz
Nominal AC Output Power	50kW
Max. AC Output Power	55kVA
System parameter	
Dimensions(WxDxH)	1100 x 110
Installation site	Outdoor
Weight	<1.5T
IP protection	IP54
Anti corrosion level	C4
Operation humidity	5%~95% (
Operation temperature	-30°C~+50
Max. operation altitude	4000m (>3
Communication port	Ethernet;
Communication protocol	CAN;MOD
Cooling method	Air condit
Standards	UN38.3;IE
	IEC60068;





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;IEC61727;IEC62116;EN50549;VDE4105;G99

Off-grid/Microgrid Applications

Off-grid: Off-grid system is an independent energy system that does not rely on traditional power grids. Energy storage systems typically work with renewable energy devices (such as solar panels and wind turbines) to provide safe, clean, and reliable electricity to remote or geographically challenging areas while effectively reducing power supply costs.



Microgrid: Microgrid system is a distributed energy system connected to the power grid and operates in collaboration with it in a small area. It can improve autonomous power supply capability, reduce dependence on the grid, and balance loads through energy storage systems. As one of the core equipment of microgrid systems, energy storage systems ensure a smooth and reliable energy supply. Additionally, they optimize scheduling and improve the safety and stability of the grid through intelligent control.



Absen Cloud monitoring system



Real Time Monitoring

View SOC, SOH, offline /online status, and fault alarms of ESS

Visible Historical Data

Weekly and monthly electricity savings statistics/historical revenue statistics



Peak Load Shifting

Energy saving strategy management, customized charging and discharging time

Disaster Prevention

When a storm arrives, ESS is fully charged to ensure stable residential electricity consumption

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PROJECT CASE >>



Loiret, France Residential Photovoltaic System

15kW/30kWh+10kwp PV 2022.05 On-Grid I Self-Sufficient Outdoor Installation

Buenos Aires, Argentina Residential Backup **Power System**

10kW/20kWh+10kwp PV 2020.07 Off-Grid I Backup Power Indoor Installation

Manila, Philippines Residential PV System

15kW/30kWh+10kwp PV 2022.10 On-Grid I Self-Sufficient Outdoor Installation





Johannesburg, SA Residential PV System

5kW/5kWh+5kwp PV 2023.03 On-Grid I Self-Sufficient Indoor Installation



Texas, US Residential PV System

15kW/30kWh+10kwp PV 2021.07 On-Grid I Self-Sufficient Outdoor Installation



PROJECT CASE >>



Brandenburg, Germany Outdoor Integrated ESS

25kW/50kWh 2022.06 On-Grid | Self-Sufficient Outdoor Cabinet

Liverpool, United Kingdom ESS

10kW/20kWh+10kwp PV 2020.07 Off-Grid I Backup Power Indoor Installation

Hunan, China Microgrids

250kW/520kWh+150kwp PV 2021.05 Self-Sufficient | Backup Power Outdoor Container





Johannesburg, South Africa ESS

600kW/1224kWh 2021.05 Self-Sufficient | Backup Power Outdoor Container



Burriam, Thailand Outdoor Integrated ESS

50kW/100kWh 2021.03 On-Grid I Backup Power Outdoor Cabinet