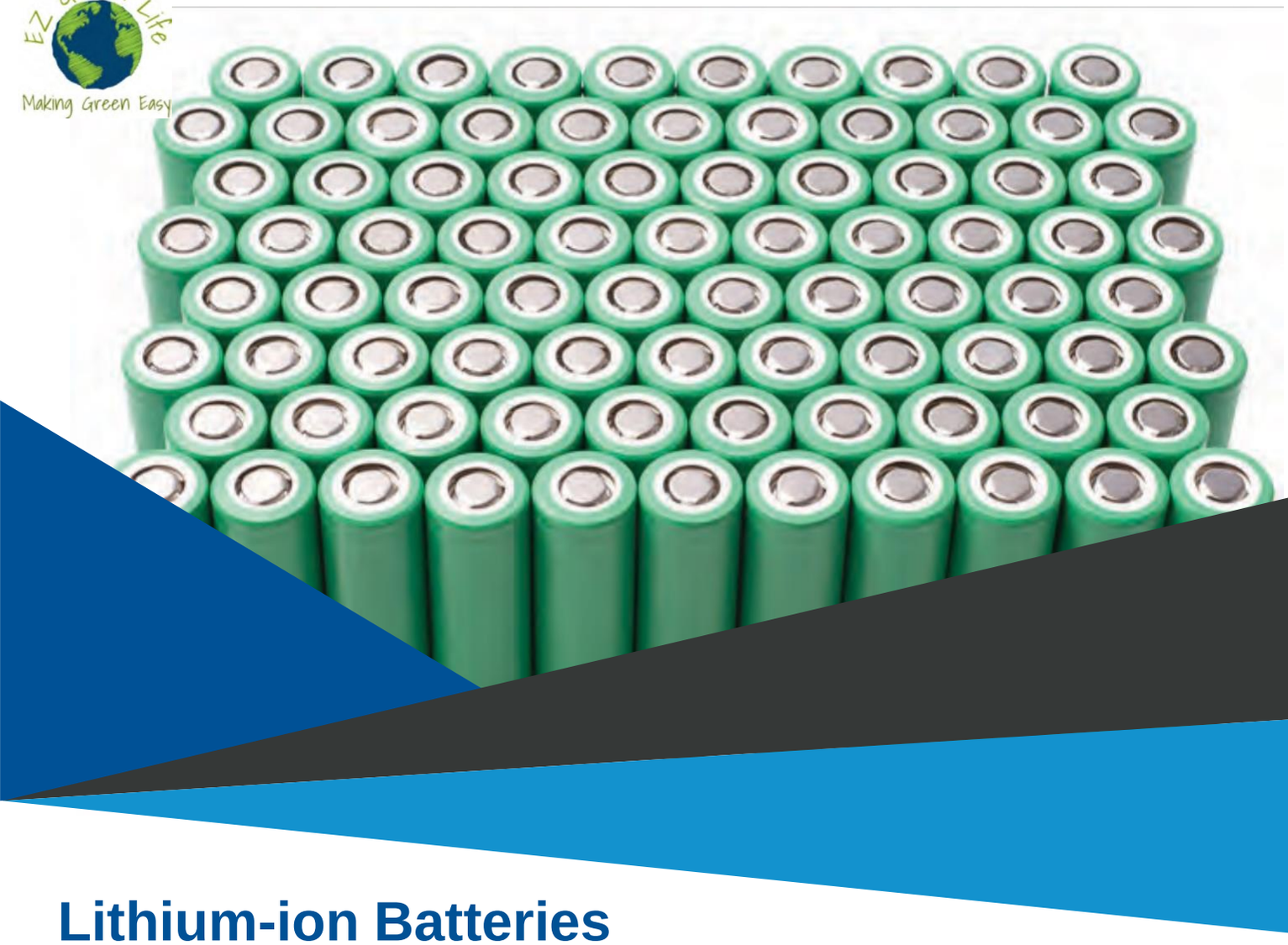

Lithium-ion Batteries

We specialize in the development of energy storage and microgrid systems. Our current products include Residential Energy Storage Systems (ESS), Commercial and Industrial (C&I) ESS, Utility ESS, Portable Power Stations, and Customized Energy Solutions.

Having integrated our scientific research, manufacturing and logistics divisions, we are a subsidiary of the largest manufacturer of building materials and leading integrated service provider in the world. and have been listed in the Fortune Global 500 for the past 9 years. We are also the **largest supplier of wind turbine blades in the world and one of the largest producers of lithium battery diaphragms in the world.**

We pride ourselves on providing **cost-effective, high-quality lithium battery solutions** based on your specific use scenarios. If our portfolio of offerings doesn't meet your specific needs, we have ability to provide fully customized solutions as well. Our control procedures and development processes are based on highest industry standards. Every battery we produce is tested and certified according to strict quality and international standards and tests. Our Certifications include IATF16949, ISO14001/9001, OHSAS18001, IEC 62040-1, IEC 62109-1, IEC 62109-2, IEC 62619, UN38.3, IEC 62133, CEC, UL, MSDS, SGS, and TÜV, but each product may be different.

Our total manufacturing capacity is over 12 Gwh and currently we have over a dozen production lines. We conduct 100% Cell Sorting, EOL testing, aging testing and final inspection to ensure production information is 100% traceable. Our warranty is good for 5 years on 12.8V Products and 10 years on 51.2V products, subject to certain terms and conditions.

ENERGY CONSERVATION & ENVIRONMENTAL PROTECTION

WE SUPPORT GREEN AND LOW-CARBON NEW INDUSTRIES, DEVELOP NEW GREEN ENVIRONMENTAL PROTECTION MATERIALS, DEVELOP GREEN AND CLEAN NEW ENERGY, AND EXPLORE NEW MODELS OF ENVIRONMENTAL GOVERNANCE.

RESIDENTIAL ESS ALL IN ONE

Battery Specifications	CREEK2-5-A	CREEK2-10-A	CREEK5-10-A	CREEK5-15-A	CREEK5-20-A
Capacity [KWh]	4.91	9.83	10.24	15.36	20.48
Battery voltage range [V]	48~56	48~56	48~56	48~56	48~56
Recommended battery voltage [V]	51.2	51.2	51.2	51.2	51.2
Cut Off Voltage [V]	48	48	48	48	48
Max. charging Voltage [V]	56	56	56	56	56
Max. Protective Voltage [V]	58	58	58	58	58
Dimension (W/D/H[mm])	580*350*1280	580*350*1280	580*350*1280	580*350*1280	580*350*1280
System Weight[kg]	110	167	149	197	245
Max. charge/discharge current [A]	60/60	120/120	120/120	120/120	120/120
Peak charge/discharge current [A]	60/60	120/120	120/120	120/120	120/120
Communication interfaces	CAN/RS485/WIFI/LAN/DRM				
Reverse connect protection	YES				
Warranty	10 Year Performance Warranty				

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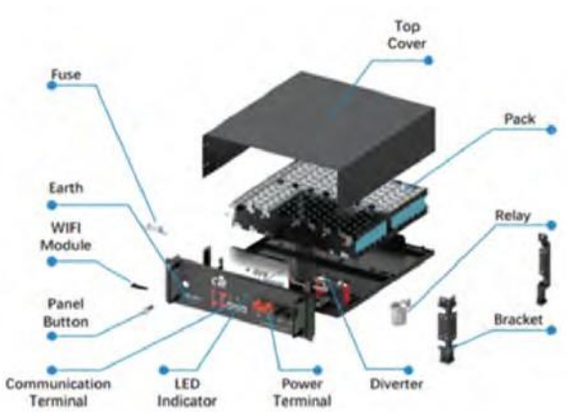
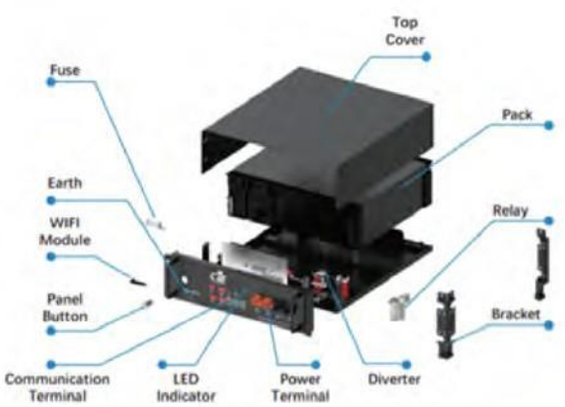
RESIDENTIAL ESS POWERCUBE

Model	DMW-3500	CFE-6200
Nominal Battery Energy	2.4kWh	5.1kWh
Nominal Capacity	48Ah	100Ah
Nominal Voltage	51.2V	
Charging Cut-off vol.	58.4V	
Discharging End-off vol.	44.8V	
Recommend C Rate	1C	
Continuous Max C Rate	1C	
Net Weight	27.5 Kg	51Kg
Dimension [W*D*H]	442*500*133mm	
Charging Temp. Range	0 ~ 50℃	
Discharging Temp. Range	-10 ~ 55°C	
Calendar Life	6000 Cycles	
Protection Level	IP20	
Communication	CAN / RS485	
Certification & Safety Standard	CB (UL1973, IEC62040, IEC62619)	
Warranty	10 Years	

Basic Parameters	Powercube (Parallel)			Powercube (Series)		
Battery Module	2 Modules	3 Modules	4 Modules	2 Modules	3 Modules	4 Modules
DMW-3500 Battery Capacity [Ah]	96	144	192	48	48	48
CFE-6200 Battery Capacity [Ah]	200	300	400	100	100	100
DMW-3500 Nomial Battery Energy [kWh]	4.914	7.317	9.828	4.914	7.317	9.828
CFE-6200 Nomial Battery Energy [kWh]	10.24	15.36	20.48	10.24	15.36	20.48
Working Voltage [V]	48~56	48~56	48~56	96~112	114~168	192~224
Nominal Voltage [V]	51.2	51.2	51.2	102.4	153.6	204.8
Operating Temp. Range [°C]	-20~50					
IP Rating	IP55					
Color	White / Silver					
Installation	Cabinet or Wall Mounting					





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RESIDENTIAL ESS POWERCUBE CONT'D

INDEX	SPEC						
Model	Powercube						
Battery Module	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules	8 Modules
DMW-3500 Battery Capacity [Ah]	96	144	192	240	288	336	384
DMW-6200 Battery Capacity [Ah]	200	300	400	500	600	700	800
DMW-3500 Nominal Battery Energy [kWh]	4.914	7.317	9.828	12.267	14.724	17.181	19.638
DMW-6200 Nominal Battery Energy [kWh]	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Working Voltage [V]	42-54						
Operating Temp. Range [°C]	-70						
Calendar Life [Cycles]	6000						
Nominal Voltage [V]	51.2						
Protection Level	IP65						
Communication	CAN / RS485						
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited						
Scalabilitty [kWh]	8pcs in parallel or series						
Compatible Converters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye Matching of other brand inverters within three days						
Warranty	10 Years						
Warranty Document Supplied	Yes						
Color	White						
Pros	Can be used in both off-grid and hybrid setups, compact design, modular expansion						
Battery Protection	Over-Current/Over-Voltage/Short Circuit/Under-Voltage/Over Temperature						
Installation	Cabinetor Wall Mounting						
Protective Class	I						
Relative Humidity (RH)	20-60 (No condensed water)						
Cooling Type	Ambient cooling						

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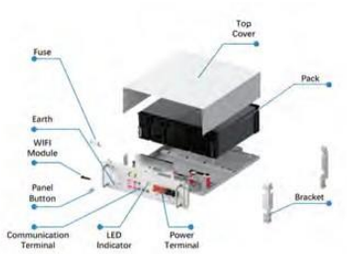
DMW-6200X

Model	Powercube 1		Powercube 2	
Battery Module	2 * DMW-6200X	4 * DMW-6200X	2 * DMW-6200X	4 * DMW-6200X
Nominal Voltage [V]	51.2		51.2	
DMW-6200X Battery Capacity [Ah]	200	400	200	400
DMW-6200X Nominal Battery Energy [kWh	10.24	20.48	10.24	20.48
Working Voltage [V]	42~54		42~54	
Operating Temp. Range [℃]	-20~50		-20~50	
Calendar Life [Cycles] [1]	6000		6000	
Protection Level	IP55		IP55	
Size L*W*H [mm]	568 * 146 * 1047	580 * 387 * 1117	568 * 146 * 1300	580 * 387 * 1300
Customization	Color of power box shell can be customized			

Model	Powercube						
Battery Module	2 Modules	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules	8 Modules
DMW-6200X Battery Capacity [Ah]	200	300	400	500	600	700	800
DMW-6200X Nominal Battery Energy [kWh]	10.24	15.36	20.48	25.6	30.72	35.84	40.96
Working Voltage [V]	42~54						
Operating Temp. Range [°C]	-20~50						
Calendar Life [Cycles][1]	6000						
Nominal Voltage [V]	51.2						
Protection Level	IP65						
Communication	CAN / RS485						
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited						
Compatable Inverters	Goodwe Victron Imeon Solis Luxpower Growatt GMDE Sofar Voltronic Deye						
	Matching of other brand inverters within three days						
Warranty	10 Years						
Warranty Document Supplied	Yes						
Color	White						
Pros	Can be used in both off-grid and hybrid setups, compact design, module expansion						
Battery Protection	Over-Current/Over-Voltage/Short Circuit/Under-Voltage/Over Temperature						
Installation	Cabinet or Wall Mounting						
Protective Class	I						
Relative Humidity (R H)	20~60 (No condensed water)						
Cooling Type	Ambient cooling						

DMW-6200X CONT'D

TECHNICAL SPECS	
MODEL	**DMW-6200X**
NOMINL BATTERY ENERGY	5.1kWh
NOMINAL CAPACITY	100Ah
NOMINAL VOLTAGE	51.2V
RANGE OF VOLTAGE	44.8V - 58.4V
RECOMMENDED C RATE	1C
CONTINUOUS MAX C RATE	1C
NET WEIGHT	51Kg
DIMENSION (W+D+H)	442*500*133mm
CHARGING TEMP RANGE	0 - 50°C
DISCHARGING TEMP RANGE	-10 - 55°C
CALENDAR LIFE	6000 Cycles
PROTECTION LEVEL	IP20
COMMUNICATION	CAN / RS485
CERTIFICATION AND SAFETY STANDARD	CB (UL1973 ,IEC62040, IEC62619)
WARRANTY	10 Years
SCALABILITY	Can be connected in parallel (≤8)



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DWM-750X, 2390X, 3670X

TECHNICAL SPECIFICATIONS				
Name		DMW-750X	DMW-2390X	DMW-3670X
Model		12.8V50Ah	12.8V100Ah	12.8V200Ah
Nominal Voltage		12.8V	12.8V	12.8V
Nominal Capacity @1C		50Ah	100Ah	200Ah
Charge Voltage		14.6V	14.6V	14.6V
Charge Current	Recommended	25A	50A	50A
	Max Continuous	50A	100A	100A
Discharge Voltage Minimum		10V	10V	10V
Discharge Current Max Continuous		50A	100A	100A
Pulse Current 5 Sec		75A	150A	150A
Weight		5kg±0.5kg	12kg±0.5kg	18kg±0.5kg
Dimensions L*W*H （mm）		180*140*210	320*140*210	320*250*210

CHARGING CURVE		
Voltage	Charging Voltage Cutoff	14.6V（Single battery：3.65V）
	Maximal Continuous Charging Current	100A
Current	Maximal Continuous Discharging Current	100A
	Over Charge Detection Voltage	14.6V（Single battery：3.65V）
	Over Charge Detection Delay time(mS)	1000±500
Overcharge Protection	Over Charge Release Voltage	14V（Single battery：3.5V）
	Over Discharge Detection Voltage	10V（Single battery：2.5V）
	Over Discharge Detection delay time(mS)	1000±500
Over Discharge Protection	Over Discharge Release Voltage	11.2V（Single battery：2.8V）
	Detection Condition	Exterior Short Circuit
	Detection Delay time	300±200uS
Short Circuit Protection	Release Condition	Cut Load, Automatically Recover
Temperature Protection	Over Temperature Protection	65℃

DISCHARGE CURVE	
Operating Temperature	Charging: 0℃ to 50℃
	Discharging :-20℃ to 60℃
Storage Temperature	1 year：-20-25℃
	3 months：-20-45℃
	1 month ： -20-60℃
Relative Humidity(R H)	20-60 (No Condensed Water)
Protection	IP65
Safety Certificate	CE
Transportation	UN38.3

Advantages of DWM-750X, 2390X, 3670X

-Volumetric Energy Density increased by 23.5%
-LED power display screen and switch buttons
-Rugged stainless steel body ensures 5-year warranty
-High protection level IP65
-Support 1C charge /discharge and excellent heat dissipation design
-Quick connection and insulation protection
-Stainless steel handles guarantees 3000 fatigue tests
-Supports four external connections in series with voltage up to 51.2V

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COMMERICAL AND INDUSTRIAL ESS

Product Name	CFE-1	CFE-2	CFE-3	CFE-4	CFE-5
System Capacity (KWh)	86	160	160	172	172
System Power (KW)	62.5	62.5	160	62.5	172
Rated Current (A)	95	95	243	95	261
Charge and Discharge Rate (C)	0.72	0.39	1	0.36	1
System Voltage Format (Vac)	AC380V, 3P+PE				
Power Factor	≥0.99				
Output Harmonic	≤3%				
Charge and Discharge Efficiency	≥90%				
Cycles	≥6000 times （80%DOD）				
Charge and Discharge Switching Time	≤200ms				
Communication Interface	Optical fiber direct connection, CAN, Ethernet, WiFi, 4G, 5G optional				
System Protection Level	IP55				
Operating Temperature	-20°C~55°C (Derating above 40°C)				
Relative Humidity	0%RH~95%RH, No condensation				
Noise	≤70dB				
System Size (W×D×H)mm	1300×1200×2200				
Installation Environment Requirements	Indoor, Outdoor				
Altitude	≤ 2000m				

LFP Battery is short for Lithium Ferro (Iron) Phosphate Battery, also known as LiFePO4. It is now the safest, most eco-friendly, and longest cycle life lithium-ion battery type.

LFP Batteries are very safe. Because they are thermal stable made, there's no risk of thermal runway which means no risk of explosion. Even if there is an internal short-circuit, it will not explode.

Due to its high-power density, this technology is used in medium-power traction applications (robotics, AGV, E-mobility, last mile delivery, etc.) or heavy-duty traction applications (marine traction, industrial vehicles, etc.)

The long service life of the LFP and the possibility of deep cycling make it possible to use LiFePO4 in energy storage applications (stand-alone applications, Off-Grid systems, self-consumption with battery) or stationary storage in general.

The highest efficiency can reach 99.3%.

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UTILITY ESS

MAIN TECHNICAL INDICATORS			
Item	index		
SYSTEM NOMINAL			
Rated Power	500KW	1000 KW	1000 KW
Nominal capacity	2580KWh	3010 KWh	3440 KWh
COMMUNICATION SIDE			
Rated Voltage	380V	380V	380V
Rated Current	759A	1500A	1500A
Rated Frequency	50Hz	50HZ	50HZ
Power Factor	more than 0.98	more than 0.98	more than 0.98
Wiring	Three-phase three-wire	Three-phase three-wire	Three-phase three-wire
Isolation	630 KVA	1250 KVA	1250 KVA
Inrush Current	Less than 7 times Ie		
Harmonic Distortion	Less than 3% (secondary side of transformer)		
DC SIDE			
Rated voltage	768V	768V	768V
Lower limit voltage	600V	600V	600V
Upper limit voltage	876V	876V	876V
Rated current	650A	1300A	1300A
Cell specifications	280Ah	280Ah	280Ah
Number of batteries	2880	3360	3840
Number of modules	180	210	240
Module	1P16S	1P16S	1P16S
Actual capacity	2580KWh	3010KWh	3440KWh
BATTERY MANAGEMENT			
Cluster battery	12 groups	14 groups	16 groups
Cluster unit	12	14	16
Voltage accuracy	0.20%	0.20%	0.20%
Temperature	1%	1%	1%
SOC accuracy	5%	5%	5%
Power accuracy	1%	1%	1%
CABINET			
Battery cabinet	966*855*2400	966*855*2156	966*855*2156
Control cabinet	2000*600*700	2000*600*700	2000*600*700
PCS cabinet	1400*825*2180	1400*825*2180	1400*825*2180
AIR CONDITIONING			
Installation method	Embedded	Embedded	Embedded
Cold power	15KWx2	15KWx2	15KWx2
FIRE			
Fire fighting medium	Heptafluoropropane		
Spray method	Pipeline (battery room), Fire Detection tube (PCS room)		
COMMUNICATION INTERFACE			
Wireless	2G, 1 minute update		
Wired	Network, 5 seconds update		
System Lifecycle	>6000Cycle（25℃）	>6000Cycle（25℃）	>6000Cycle（25℃）
Capacity Availability	>80%	>80%	>80%
Weight	<20T	<41T	<45T
Structure Size	12.192m*2.438m*2.591m	12.192m*2.438m*2.591m	12.192m*2.438m*2.591

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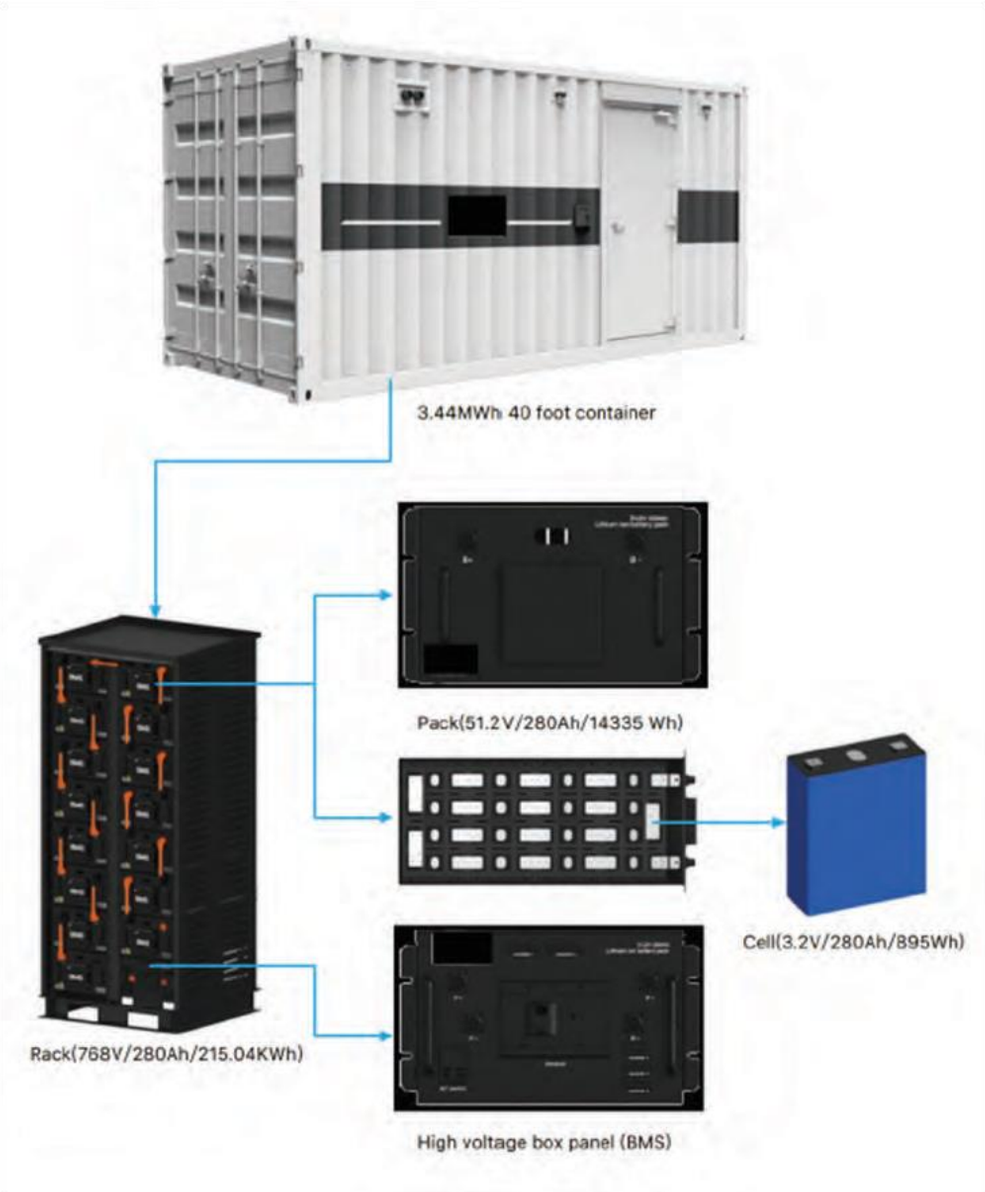
UTILITY ESS CONT'D

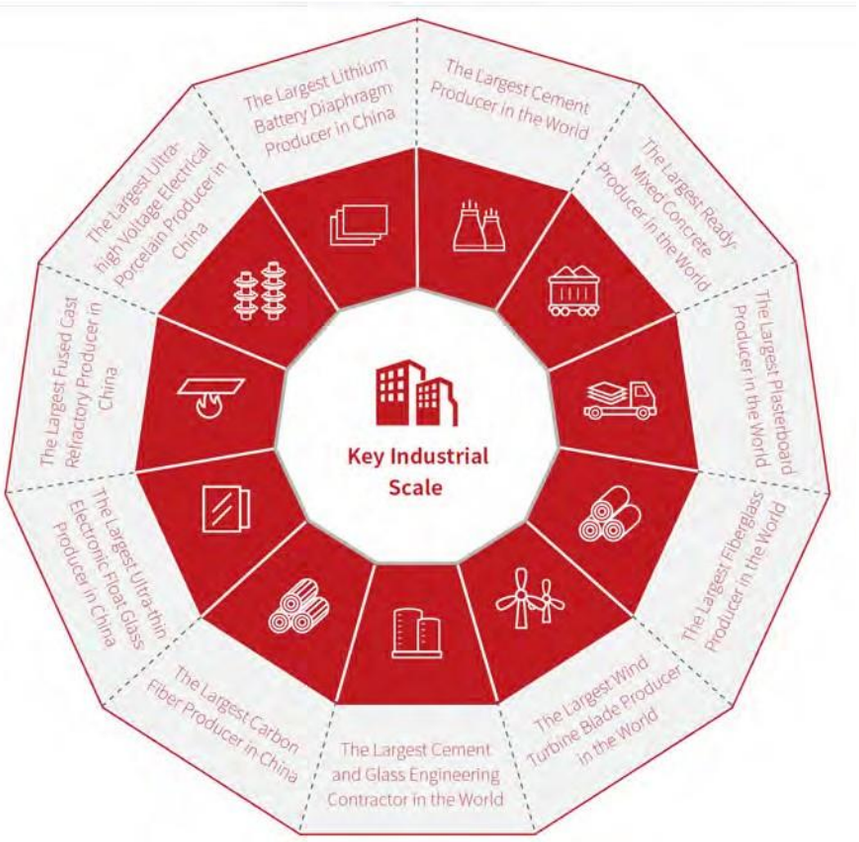
Lithium iron Phosphate battery Proven track record
≥ 90% System charge and discharge efficiency
≥ 6000Cycles: Cell cycle life under energy storage conditions
High speed communication, power distribution, metering. Two level controllable switch for AC output
High current high efficiency two-way active equalization technology
Installation: Modular design, indoor or outdoor, space efficient



CUSTOMIZED SOLUTIONS: We Customize Clean, Smart, Renewable Energy For Your Specific Needs

1. Perform Lithium Battery System Functional Analysis
2. Decom and design of each sub-system
3. Subsystem Simulation Verification
4. System Integration Design
5. Design Verification of Each Subsystem
6. Engineering Integration
7. System Integration, Testing and Verification

MORE ABOUT US



- 26 National Scientific R&D Institutes
- 38,000 Scientific R&D & Technical Engineering Employees
- 33 National Industrial Quality Inspection Centers
- 12,000+ Patents
- 3 National Key Laboratories
- 8 National Tech Engineering Research Centers
- 8 National Standardization Technical Committees

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