

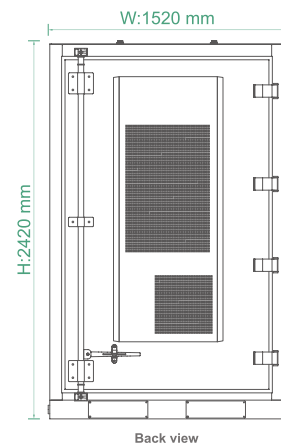
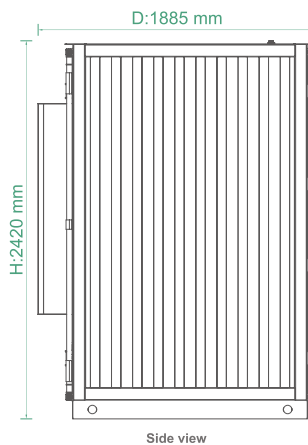
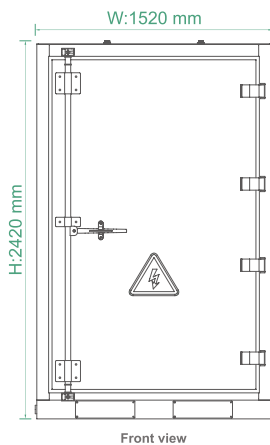
Outdoor Energy Storage Battery Cabinet



• Features

- **Advanced Safety Management:** Built-in multi-level Battery Management System (BMS) for optimal performance and protection.
- **Durable and Safe Design:** IP54-rated, fireproof, and explosion-proof cabinet for enhanced reliability.
- **Scalable Solution:** Supports easy expansion of power and capacity.
- **Simplified Installation:** Designed for quick and hassle-free on-site setup.
- **Comprehensive Fire Protection:** Fireproof devices integrated within each module and the cabinet.

• Product Dimensions



• Technical Parameter

Energion Series Outdoor Energy Storage Battery Cabinet	
Battery parameter	
Cell	3.2V 280AH
Battery type	LFP(LiFePO4)
Battery module	51.2V 280AH
Battery module Qty.	15
Battery cluster	768V 280AH
Battery cluster configuration	1P16S*15
Electrical parameter	
Nominal energy	215Kwh
Nominal voltage	768Vdc
System voltage range	672-852VDC
System charge/discharge rate	0.6C
Depth of charge and discharge	100%—10%
No. of cycles	6000
Balanced compensation power	1500W (25A)
Compensation methods	Dynamic real-time compensation
Recommended AC side power	125KW
Protection	
DC input/output	Disconnect switches+fuses
Electrical isolation	Inter - module controlled protection breakout
Fire protection systems	Two-stage aerosol fire module + Smoke sensors + Enclosure explosion - proof pressure relief device
General Data	
Communication	RS485/CAN/LAN/4G
Communication protocols	ModBusTCP/CAN
Working temperature range	-20 ~ 50°C charge/0 ~ 50°C Discharge
Relative humidity	0 ~ 95%(No condensing)
Cooling	Air cooling(air conditioner+fan)
Noise	≤65db
Highest altitude	≤2000m
Degree of protection	IP54
Dimension(W*D*H)	1520*1885*2420mm
Weight	3.2T
Installation method	Cabinet floor mounting
Certification	CE-EMC(EN 61000-6-2/-4) ; CE-LVD(IEC 62477-1) ; IEC 62619 ; UN38.3

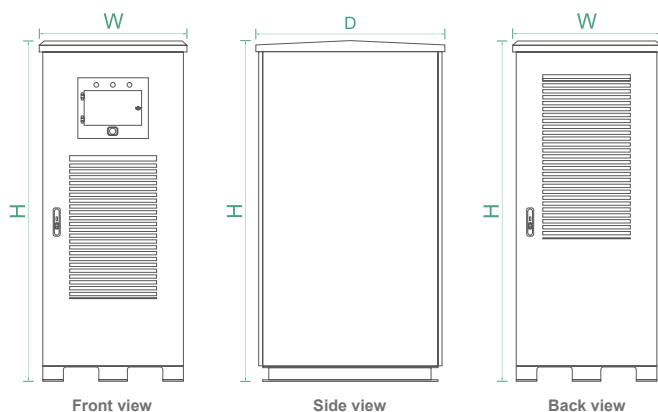
Three Phase Power Conversion System



Features

- **High Efficiency:** Achieves a maximum efficiency of 97.5%.
- **Modular Design:** Simplifies installation and deployment.
- **Bidirectional Operation:** Allows power to flow both ways—charging the batteries from the grid/solar power and discharging stored energy back to the grid or your equipment.
- **Scalable Power:** Configurable from 100 kW to 500 kW using 1 to 5 power modules.
- **Enhanced Battery Safety:** Multi-string technology ensures better safety and performance.
- **Flexible Expansion:** Supports multiple battery strings operating in parallel or independently for seamless power and energy scalability.
- **Integrated Grid Support:** Built-in grid-support functions for enhanced utility interaction.
- **On-Grid/Off-Grid Switching:** Optional STS/ATS enables smooth transitions between on-grid and off-grid operation.

• Product Dimensions



Model	Size(W*D*H)
UP-S-100KW	890*1240*2100mm
UP-S-125KW	
UP-S-200KW	
UP-S-250KW	
UP-S-300KW	
UP-S-400KW	
UP-S-500KW	890*1240*2300mm

• Technical Parameter

UP-S Series Power Conversion System							
Model	UP-S-100KW	UP-S-125KW	UP-S-200KW	UP-S-250KW	UP-S-300KW	UP-S-400KW	UP-S-500KW
DC parametric							
Battery voltage	630-850VDC						
Max. Battery voltage	900VDC						
Battery packs	1/215Kwh	1/215Kwh	2/215Kwh	2/215Kwh	3/215Kwh	4/215Kwh	5/215Kwh
DC max current	140A	180A	280A	360A	420A	560A	700A
Utility-interactive Mode							
AC max power	110KW	137.5KW	220KW	275KW	330KW	440KW	550KW
PCS module Qty.	100KW*1	62.5KW*2	100KW*2	62.5KW*4	100KW*3	100KW*4	100KW*5
AC frequency	50/60±2.5Hz						
Rated Voltage	380VAC						
AC Voltage Range	340VAC-440VAC						
THDi	≤3%（Rated output）						
Overload Capability	110%(Long-term)						
AC PF/ Adjustment Rage	>0.99 (Rated output)/1（lead）~ 1（lag）						
Stand-alone Mode							
Rated output voltage	380VAC						
Output voltage accuracy	±1%						
Max Output Current	140A	180A	280A	360A	420A	560A	700A
Output THDu	<3%（Linear load）						
Rated output frequency	50/60Hz						
Overload Capability	110%(Long-term)						
Crest factor	> 3:1						
General Data							
Peak efficiency	97.5%						
Enclosure	IP54						
Operating temp	-25~55° C						
Humidity	0~95%（No condensing）						
Cooling	Intelligent air cooling						
Noise	<65dB						
Highest altitude	2000m(>2000m derating)						
Display	Touch screen(External)						
BMS Communication	RS485, CAN						
Communication	RS232/RS485(Standard),Ethernet						
Dimension(W*D*H)(mm)	890*1240*2100						890*1240*2300
Protection	OTP、AC OVP/UVF、OFP/UFP、AC Phase Reverse、OLP、Anti-islanding						
AC connection	3P4W+PE						
Certification	CE-EMC(EN 61000-6-2/-4) , CE-LVD(IEC 62477-1 , EN 50549-1 , VDE-4105 , NA/EEA-NE7-CH 2020						

BESS

Smart Integrated All-in-One BESS



• Features

- All NEW design all-in-one BESS
- Industry's 1st built-in MPPT design
- Built-in 60kW PCS
- Built-in 60kW MPPT module
- Built-in Isolation Transformer
- Configurable energy storage capacity from 120kWh to 160kWh
- Support both on/off grid operation
- Fire and explosion-proof housing
- Patent-pending intelligent air-ducting design for better cooling efficiency
- Perfect for most 80A end users

• Applications



Self-Consumption



Off grid



Demand Charge



Back Up



DG+BESS



Micro-grid



Smooth output



Peak Shifting

• Technical Parameter

BESS Series Hybrid Commercial and Industrial ESS		
Model	60-120(-60)	60-160(-60)
AC Specificaiton		
AC rated ower	60kW	
PCS rated current	140A	120A
PCS Port voltage	250VAC	290VAC
AC rated voltage	400V±15%	
Rated frequency	50Hz/±2.5Hz	
AC rated current	87A	
AC overload capacity	x1.1 (10min) ; x1.2 (60S)	
Grid structure	3-phase 4-wire +PE	
Output THDi	≤3%	
AC PF	-1~1	
Battery system		
DC rated voltage	460V	563V
DC voltage range	403V~525V	493V~642V
Rated capacity	280Ah	
Rated energy	129KWh	157.7KWh
Max discharge current	140A	120A
Cell	3.2Vdc 280Ah LiFePO4	
Battery module	51.2Vdc 280Ah 14.33KWh Air cooling	
MPPT(Optional)		
PV DC.Max Voltage	518V	633V
MPPT Voltage Range	0~518V	0~633V
Number of MPPT paths	1	
Number of branch inputs	20	
Max. branch current	15A	
Voltage range	403V~525V	493V~642V
Rated current	140A	
Max. output current	80A	
Max. efficiency	>98%	
Transformer specification		
Specification	60KVA three-phase isolation/vertical	
Overload capacity	x1.1	
Insulation class	CLASS H 180°C	
Transformation ratio	250V°C 400V	
Design temperature	Temperature rise≤90K	
Protection Level	IP54	
Max elevation	≤2000m	
Humidity Range	0~100%(No condensing)	
Transformer specification		
Cooling	Air conditioning cooling +intelligent air cooling	
Noise Level	≤75dB	
Temperature Range	-20°C ~ 50°C (> 45°C capacity reduction)	
Protection Level	IP54	
Max elevation	3000m (> 2000m capacity reduction)	
Humidity Range	0~95%(No condensing)	
Size (Width * depth * height)	2050*1400*2000 mm	
Weight	3300kg	3675kg
Installation mode	Vertical mounting	
Maximum efficiency	0.955	
Isolation mode	Built-in transformer isolation	
Protection function	Ac over/Under voltage, Over temperature, Abnormal frequency, AC phase error, Over current, Communication failure, Fan failure, Insulation impedance detection, Anti-island	
Display	Touch screen	
Communication interface	RS485 / CAN / LAN	

BESS

Hybrid Commercial and Industrial ESS



• Features

- All-in-one design with high degree of integration
- Modular design with optional modules of different sizes
- Support for grid-connected and off-grid operation
- MPPT Solar controller available as an option
- IP54 class fire and explosion-proof housing
- Patented air duct design, intelligent air cooling, 3-5°C temperature difference of the battery core

• Applications



Self-Consumption



Off grid



Demand Charge



Back Up



DG+BESS



Micro-grid



Smooth output



Peak Shifting

• Technical Specification

BESS Series Hybrid Commercial and Industrial ESS			
Model	100-160(-60)	60-160(-60)	30-75(-60)
PCS DC Parameter			
DC voltage range	650~850Vdc		
Max. DC current	158A	100A	48A
AC Parameter			
AC output power	100KW	62.5KW	30KW
AC voltage range	400V		
Frequency range	50Hz/60Hz		
AC rated current	144A	90A	44A
Output THDI	≤3%		
AC PF	-1~+1		
MPPT(Optional)			
PV DC. Max Voltage	1000V		
MPPT Voltage Range	300-800V		
Number of MPPT paths	4		
Number of branch inputs	8		
Max. branch current	13A		
Voltage range	800V		
Rrated current	80A		
Max. output current	104A		
Max. efficiency	>99%		
Battery s ystem			
DC Voltage Range	672~828Vdc		
Cell	3.2V105AH		
Battery module	51.2Vdc 10.8KWH		51.2Vdc 5.4KWH
Battery module dimension(W*D*H)	560*850*150mm		560*540*150mm
Battery Module Qty.	15	15	15
Dimension(W*D*H)	1500*1500*2400mm		1300*1100*2260mm
General Data			
System highest efficiency	98.50%	97.50%	97.50%
AC connection	3P3W/3P4W		
Cooling	Air conditioning cooling + intelligent air cooling		
Noise Level	70dB		
Temperature Range	-20℃~45℃		
Protection Level	IP54		
Altitude	3000m		
Humidity Range	0~95%（No condensing）		
Display	7' Color Touch Screen		
Upper Communication Mode	ModBusTCP/IP		
Communication Port	RS485, CAN, Ethernet		
Dimension(W*D*H)	1500*1500*2400mm		1300*1100*2260mm