TO BE THE WORLD WIDEST ENERGY STORAGE SERVICE PROVIDER

JA POWER ENERGY

Much More Than Grade A

NO ENERGY WASTE

5-in-One Fully integrated

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BESS and EV Charger power station, including residential & commercial energy storage battery

COMPANY PROFILE

Guangdong JApower Energy Technology Co., Ltd. was established in 2008, with a team of 17 years of experience i n lithiumbatterR&Dandproduction.The production line is locatedin DongGuan City,GuangDong province, the" Factory Capital"of Asia.

JAPOWER ENERGY It is a company and factory that focuses on research and development and provides customers with power solutions.
JAPOWER ENERGY Already have cooperated with more than 3000 clients including more than 30 distributors from all over the world.2GWh annual production capacity.Customers co ver 150 countries.

Our Team

Mission: To Strive Forward No Energy Waste

Vision: To Be the World Widest Energy Storage Service Provider

Value: Action, Innovation, To be the Best, Win-win

Slogan: Trusty , Efficiency , Responsibility and Reliability

Main Business

BESS and EV Charger power station, including residential & commercial energy storage battery,photovoltaic energy storage system

RESIDENTIAL ENERGY STORAGE BATTERY SERIES

12kW43/15kW48/16kW64/20kW80kWh

Hybrid-Mini C&I ESS All-in-one battery

5kWh/10kWh/12kWh/15kWh/16/kWh

Wall-mounted /ground-mounted

14.33kWh-100kWh

Low voltage stackable

20kWh-60kWh

High voltage stackable

CUSTOMIZATION SERIES

Indoor Rack ground-mounted

10 Years warranty

Find a Dealer

ALL IN ONe
Home storage battery

US Standard

Inverter 5-6 kW10-16 kWh

5.12kW h/10.24kWh/14.34kWh

- ★ Voltage and Temperature observation (IEC62619 certified)
- ★ Reduce electric bill and maximize your solar investment with battery storage
- ★ Data communication with popular hybrid inverters
- ★ Market Leading BMS Battery to Maximize Reliability and Longevity

Model	ESS-EU-5K10kWh	ESS-EU-6K10.2kWh	ESS-EU-6K12.0kWh	ESS-EU-6K14.3kWh	ESS-EU-6K16kWh
System Specification					
Nominal Output Power/UPS Power (W)	5000	6000			
AC Output Frequency and Voltage	50/60Hz; L/N/PE 220/ 230/Vac 0.85Un-1.1Un				
Grid Type	Single phase				
Energy Configuration (kWh)	10.00	10.24	12.28	14.33	16.38
Dimension (W x D x H,mm)	605*435*1065 (contain inverter)				
Weight Appr. (kg) (contain inverter)	145	150	160	165	170
Rated AC Input/Output Current (A)	22.7/21.7	27.3/26.1			
Battery Operating Voltage (V)	40 ~ 60				
Battery Chemistry	LiFePO4				
IP Rating of Enclosure	IP21~IP65				
System Certification	UN38.3, IEC62619, CE, CEI 0-21, VDE-AR-N 4105, IEC 62109				
Rated AC Input/Output Active Power (W)	5000	6000			
Warranty	15 years				
Inverter Technical Specification					
Max. PV Input Power (W)	10000	12000			
Max. PV Input Current (A)	13+13				
MaxPVInput Voltage (V)	500				
Start Up DC Voltage (Vdc)	125				
MPPT Voltage Range (Vdc)	150-425				
Max. PV Short-circuit Current (A)	17+17				
No.of MPP Trackers/No.of String Per MPP Tracker	2/1+1				
Peak Power (off grid)	1.5 time of rated power, 10s				
Power Factor	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC injection current (mA)	<0.5%In				
Display	LCD				
Operating Temperature Range (℃)	-40~60(>45℃ derating)				
Permissible Ambient Humidity	0 ~ 100%				
Max AC Input/Output Apparent Power (VA)	5500	6600			
Inverter Communication	CAN, RS485, WIFI, ETH				
Safety EMC / Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN, 61000-6-1, IEC/EN 61000-6-2, IEC/EN61000-6-3, IEC/EN 61000-6-4				
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150				
Max. Efficiency	97.6%				
Max. charging/discharging efficiency	95%				
Max Parallel connection sets	16				
Battery Technical Specification					
Battery Module Nominal Voltage (V)	40-60				
Battery Capacity (Ah)	200	202	206	240	320
Battery Energy (kWh)	10.00	10.24	10.55	12.28	16.38
BMS Communication	Self-adaption to BMS				
BMS parallel support connection	Modular design, scalable up to 32 units				
Max Charge & Discharge Current (A)	100			150	200
Operating Temperature Range	Charge: 0 ~ 55℃ / Discharge: -30℃ ~ 55℃				
Cycle Life	⩾10000(@25℃±2℃,0.5C/0.5C,70%EOL)				
Short Circuit Protection	YES				
Over Current Protection	YES				
Over Charge Protection	YES				
Over Temperature Protection	YES				
Cell Over Voltage Protection	YES				
Cell Over Under Protection	YES				
Cell Discharge Protection	YES				

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Model	ESS-EU-14K28kWh	ESS-EU-15K32kWh	ESS-EU-16K43kWh	ESS-EU-18K64kWh	ESS-EU-20K80kWh
System Specification					
Nominal Output Power/UPS Power (W)	14000	15000	16000	18000	20000
AC Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac 0.85Un-1.1Un				
Grid Type	Three phase				
Energy Configuration (kWh)	28.66	32.14	43.00	64.28	80.35
Dimension (contain inverter) (W x D x H,mm)	1012*614*1070			1076*614*1295	1076*614*1565
Weight Appr. (kg) (contain inverter)	375		510	630	750
AC Output Rated Current (A)	21.3/20.3	22.8/21.8	24.3/23.2	27.3/26.1	30.4/29
Battery Operating Voltage (V)	40 ~ 60				
Battery Chemistry	LiFePO4 LFP				
IP Rating of Enclosure	IP21~IP65				
System Certification	UN38.3, IEC62619, CE, CEI 0-21, VDE-AR-N 4105, IEC 62109				
Rated AC Input/Output Active Power (W)	14000	15000	16000	18000	20000
Warranty	10 years 15years				
Inverter Technical Specification					
Max. PV Input Power (W)	28000	30000	32000	36000	40000
Max. Operating PV Input Current (A)	36+36				
Rated PV Input Voltage (Vdc)	800				
Start Up DC Voltage (Vdc)	160				
MPPT Voltage Range (Vdc)	200-650				
Max. Input Short-Circuit Current (A)	54+54				
No.of MPPT Trackers/No.of String PerMPPT Tracker	2/2+2				
Peak Power (off grid)	1.5 time of rated power, 10s				
Power Factor	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC injection current (mA)	<0.5%In				
Display	LCD				
Operating Temperature Range (℃)	-40~60(>45℃ derating)				
Relative Humidity	0% ~ 100% (No Condensing)				
Max AC Input/Output Apparent Power (VA)	15400	16500	17600	19800	22000
Inverter Communication	CAN, RS485, WIFI, ETH				
Safety EMC / Standard	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN, 61000-6-1, IEC/EN 61000-6-2, IEC/EN61000-6-3, IEC/EN 61000-6-4				
Grid Regulation	VDE4105, IEC61727/62116, VDE0126, AS4777.2, CEI 0 21, EN50549-1, G98, G99, C10-11, UNE217002, NBR16149/NBR16150				
Max. Efficiency	97.6%				
Max. charging/discharging efficiency	95%				
Max Parallel connection sets	16				
Battery Technical Specification					
Battery Module Nominal Voltage (V)	40-60				
Battery Capacity (Ah)	280	314	280	314	314
Battery Energy (kWh)	28.66	32.14	42.99	64.28	80.35
BMS Communication	Self-adaption to BMS				
BMS parallel support connection	Modular design, scalable up to 32 units				
Max Charge & Discharge Current (A)	200				
Operating Temperature Range	Charge: 0 ~ 55℃ / Discharge: -30℃ ~ 55℃				
Cycle Life	⩾10000(@25℃±2℃,0.5C/0.5C,70%EOL)				
Short Circuit Protection	YES				
Over Current Protection	YES				
Over Charge Protection	YES				
Over Temperature Protection	YES				
Cell Over Voltage Protection	YES				
Cell Over Under Protection	YES				
Cell Discharge Protection	YES				

Power Storage Wall

IEC62619, CE

6500+ life cycles

5.12kW h/10.24kWh/14.34kWh

- ★ Voltage and Temperature observation (IEC62619 certified)
- ★ Reduce electric bill and maximize your solar investment with battery storage
- ★ Data communication with popular hybrid inverters
- ★ Market Leading BMS Battery to Maximize Reliability and Longevity

Model	Power Porter 5.0	Power Porter 9.0	Power Porter 10.0	Power Porter 12.0	Power Porter 15.0
Battery Data					
Nominal Energy	5.12kWh	9.01kWh	10.34kWh	12.28kWh	15.46kWh
Rated Capacity	100Ah	176Ah	202Ah	240Ah	302Ah
Nominal Current	100A	100A	100A	200A	200A
Nominal Voltage	51.2V				
Operating Temperature	0℃ to 55℃（Charge） -20℃ to 60℃ （Discharge）				
General Data					
Installation	Wall or Floor mount	Wall or Floor mount	Wall or Floor mount	Wall or Floor mount	Floor mount
Dimension (H/W/D)	745 / 460 / 165 mm	830 / 460 / 200 mm	830 / 460 / 200 mm	980 / 460 / 200 mm	980 / 460 / 230 mm
Weight	49.5kg	75kg	93kg	112kg	120kg
Protection Class	IP31				
Scalability	Up to 4 units				
DOD	90%				
Communication	CAN2.0 / RS485				
Certification And Standards	UN38.3、IEC62619、CE				
Warranty	5 Years Product Warranty, 10 Years Battery Warranty				
Guaranteed Cycles	>9000				
Compatible Inverters	Growatt, Deye, Victron, Lux Power, GoodWe, TBB, Megarevo, etc.				

- When the temperature is below 0 ℃ or above 45℃, the performance will be limited.
- Test conditions: 0.2C Charging/Discharging, @25C, 80% DOD.

Power Storage Wall

IEC62619, CE

6500+ life cycles

5.12kW h/10.24kWh/14.34kWh

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Model	Power Porter 5.0	Power Porter 9.0	Power Porter 10.0	Power Porter 12.0	Power Porter 15.0
Battery Data					
Nominal Energy	5.12kWh	9.01kWh	10.34kWh	12.28kWh	15.46kWh
Rated Capacity	100Ah	176Ah	202Ah	240Ah	302Ah
Nominal Current	100A	100A	100A	200A	200A
Nominal Voltage	51.2V				
Operating Temperature	0℃ to 55℃（Charge） -20℃ to 60℃ （Discharge）				
General Data					
Installation	Wall or Floor mount	Wall or Floor mount	Wall or Floor mount	Wall or Floor mount	Floor mount
Dimension (H/W/D)	745 / 460 / 165 mm	830 / 460 / 200 mm	830 / 460 / 200 mm	980 / 460 / 200 mm	980 / 460 / 230 mm
Weight	49.5kg	75kg	93kg	112kg	120kg
Protection Class	IP31				
Scalability	Up to 4 units				
DOD	90%				
Communication	CAN2.0 / RS485				
Certification And Standards	UN38.3、IEC62619、CE				
Warranty	5 Years Product Warranty, 10 Years Battery Warranty				
Guaranteed Cycles	>9000				
Compatible Inverters	Growatt, Deye, Victron, Lux Power, GoodWe, TBB, Megarevo, etc.				

- When the temperature is below 0 ℃ or above 45℃, the performance will be limited.
- Test conditions: 0.2C Charging/Discharging, @25C, 80% DOD.

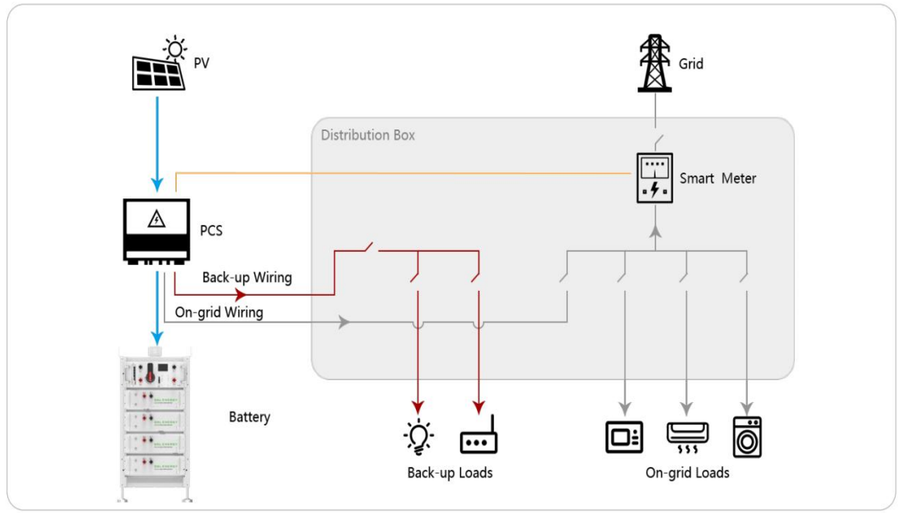
20kWh-60kWh

High voltage stackable

- High Safety:Top brand new LiFePO4 cells,Smart BMS build in
- Easy installation, small footprint

Cloud Platform | Customization | High safety | Modular Design | High stability

- Perfect match:Compatible to high voltage inverter in the market
- LCD Touch Screen:display the parameters of each module in real time
- Comprehensive, multi-level battery warning and protection strategy
- Complete communication and monitoring functions



Model	R20K	R25K	R30K	R35K	R40K	R45K	R50K	R55K	R60K
Nominal Capacity (kWh)	20.48	25.60	30.72	35.84	40.96	46.08	51.20	56.32	61.44
Cell Matching	64S1P	80S1P	96S1P	112S1P	128S1P	144S1P	160S1P	176S1P	192S1P
Nominal Voltage (V)	204.8	256	307.2	358.4	409.6	460.8	512	563.2	614.4
Working Voltage Range (V)	179.2-230.4	224-288	268.8-345.6	313.6-403.2	358.4-460.8	403.2-518.4	448-576	492.8-633.6	537.6-691.2
Weight (kg)	201.4	268	309.6	351.2	392.8	434.4	499	540.6	582.2
Dimension (WxDxH mm)	553*503 *1011	553*503 *1620	553*503 *1620	553*503 *1620	553*503 *1620	553*503 *2230	553*503 *2230	553*503 *2230	553*503 *2230
Battery Type	LFP(LiFePO4)								
Nominal Working Current	100A								
Communication Port	CAN//TCP/IP								
Working Temperature Range	Charge:0-55°C/Discharge:-20-60°C								
Waterproof	IP20								
Installation Method	Floor-standing								
Cycle Life	6500								
Warranty Period	10 years								
Peak Charge/Discharge Current (@25°C,5S)	125A								
Discharge Rate of Module	⩽3.5%/month/@25°C								
Parallel Connection	32 units in parallel								

If the size and parameters of the product are changed, the latest information will prevail without further notice.

CUSTOMISED SERIES

Indoor Rack ground-mounted

Dust cover (optional)

- Convenient Installation&maintenance
- Customized capacity(57~215) kWh

Touchscreen (optional)

- Flexible Configuration modular design
- Top brand BMS Safe and Reliable

Easy connection

Flexible installation

Modular Design

Cloud Platform

SPECIFICATIONS

Model（High voltage）	JA-POWER-96	JA-POWER-112	JA-POWER-192	JA-POWER-225
Nominal Voltage(V)	307.2V	358.4V	614.4V	716.8V
Cell model/Configuration	3.2V314Ah/16S1P			
Capacity(Ah) Cell	314Ah			
Rated Energy(kWh)	96.02kWh	112.35kWh	192.92kWh	225.07kWh
Max.Charge/Discharge Current(A)	140A			
Voltage Range(Vdc)	268.8-345.6V	313.6-403.2V	448~576V	627.2~806.4V
Communication	Modbus RTU			
Cycle Life	≥6500Cycles@25℃,80%DOD			
Design Life	≥15 Years(Cycle Life≥15Years (25℃))			
MECHANICAL SPECIFICATIONS				
Product weight(KGS)	850 KGS	960 KGS	1650KGS	1920 KGS
Dimension(L/W/H)(mm)	1100*792*1218mm	1100*792*1218mm	1100*792*1974mm	1100*792*2226mm
IP Grade	IP20			
SECURITY AND CERTIFICATIONS				
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC			
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054			
Protection	Short- circuit protection/overcurrent protection/over-temperature protection			
ENVIRONMENTAL SPECIFICATIONS				
Operating Temperature(℃)	Charge 0℃~50℃; Discharge -10℃~ 50℃			
Working Altitude(m)	≤2000m			
Humidity	≤90% (Non-condensing)			
Warranty	10 years			

COMMERCIAL AND INDUSTRIAL ENERGY STORAGE

JA-80KTL261kWh

261kWh All-in-one liquid-cooled ESS

JA-30KTL112kWh

112kWh DC Battery

JAPOWER-215kWh

215kWh DC Battery

JA-ESS125KW-261kWh

125kW/261kWhAllinoneACcouple

JA-ESS150kW-315kWh

150kW/300kWhMicrogrid

JA-80KTL261kWh

261kWhDCBatter

Advantages

- High security
- Intelligent temperature control
- Stable operation
- Automatic fire fighting system

Application

Battery Technical Specification	
Battery Module Nominal Voltage (V)	832V
Battery Capacity	314Ah
Battery Energy (kWh)	261.25
BMS Communication	CAN
BMS parallel support connection	4sets
Max charge current	200A
Max discharge current	200A
Battery system Weight (kg)	2800 (Cabinet 370KG)
Operating Temperature Range	Charge: 0～55℃ Discharge: -20℃～55℃
Cycle Life	≥6500(@25℃±2℃,0.5C/0.5C,70%EOL)
Battery Module Certification	CE, IEC62619, IEC62040, UN38.3, MSDS
Protection	
Short circuit protection	YES
Over current protection	YES
Over charge protection	YES
Over temperature protection	YES
Cell over voltage protection	YES
Cell under voltage protection	YES
Over discharge protection	YES

JA-125(261kWh)EV120

261kWhDCBatter

Model	JAL-CESS125k261DC
Grid Port	
Rated Power	125kW
Max. Power	171kW
Rated Current	150A
Max. Current	180A
Rated Voltage	440Vac
Rated Frequency	50-60Hz (±5Hz)
PV Side	
Max. PV Input Voltage	Max 738V
PV Input Power	50kW
MPPT Number	1
Battery Side	
Battery Rated Capacity	261kWh
Battery Voltage Range	832V
Input Voltage	650~950V
Battery Type	Lithium iron phosphate battery (LFP)
Cell Capacity	314Ah
Battery Series Parallel Connection Mode	260S1P(5*52S1P)
Max. Charge and Discharge Current	157A
Charging Side	
Rated Output Power	60kW*2
Rated Output Current	120A*2 (500Vdc)
Measuring Accuracy	<±0.1%
Number of Charging Guns	Dual Guns
Gun Line Length	5m
Starting Method	Scan code, Swipe card, APP
Charging Method	Auto-fill, by amount, by power, by time
Display Method	LED display light
Basic Parameters	
Cooling Method	Intelligent air cooling
Protection Level	IP55
Power Consumption During Shutdown	<0.1% rated power (excluding transformer)
Relative humidity	0~95% (no condensation)
Noise	<70db
Ambient Temperature	25℃~60℃ (derating above 45℃)
Altitude	3000m (derating > 2000m)
BMS Communication	CAN
EMS Communication	Ethernet / 485
Emergency Stop Protection	Equipped with emergency stop button, with emergency stop protection function
Protection Characteristics	Input over-under-voltage protection, input over-current protection, anti-surge protection, output short-circuit protection, over-temperature protection,Anti-reverse irrigation protection, battery active protection, emergency shutdown and other protection functions.
Dimensions (W*D*H)	1800*1200*2300mm
Weight (approx.)	2500kg

JA-30KTL112kWh

112 kWh DC Batter

Advantages

- High security
- Intelligent temperature control
- Stable operation
- Automatic fire fighting system

Application

SPECIFICATION

Battery cell	
Rated Voltage	3.2V
Capacity	314Ah
Batty Pack (1P16S)	
LiFePO4 Battery Pack	JA-30KTL112kWh
Rated Voltage	51.2V
Nominal Capacity	314Ah
Pack Energy	16.07kWh
Weight	130KGS
Battery System(1P112S)	
Rated Voltage	358.4V
Nominal Capacity	314Ah
Rated Current	150A
Battery Energy	112.35kWh
Voltage Range	313.6-403.2V
Cycle Life	≥6500Cycles@25℃,80%DOD
Connecting Way	1P112S /1 cluster
Max Efficiency	≥90%
Cooling	Air cooling
Optimal Working Temperature Range	-10℃~55℃（<45℃ derating）
Communication Interface	Modbus RTU/Modbus TCP
IP Grade	IP54
Dimension	1295*1335*2085mm
Weight	1280KGS
Certificates	UN38.3,MSDS,IEC62619(CB),CE-EMC
Warranty	10 years

JAPOWER-215kWh

215kWhDCBatter

Advantages

- High security
- Intelligent temperature control
- Stable operation
- Automatic fire fighting system

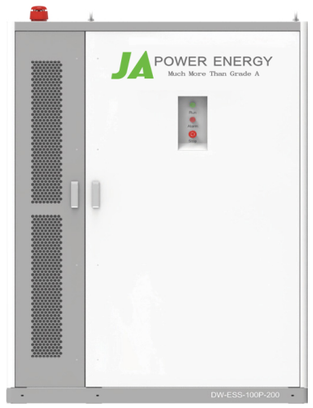
Application

SPECIFICATION

Battery cell	
Rated Voltage	3.2V
Capacity	280Ah
Batty Pack (1P16S)	
LiFePO4 Battery Pack	JAPOWER-215kWh
Rated Voltage	51.2V
Nominal Capacity	280Ah
Pack Energy	14.336kWh
Weight	130KGS
Battery System (1P224S)	
Rated Voltage	768V
Nominal Capacity	280Ah
Rated Current	200A
Battery Energy	215.00kWh
Voltage Range	627.2-806.4V
Cycle Life	≥6000Cycles@25℃,80%DOD
Connecting Way	1P224S /1 cluster
Max Efficiency	≥90%
Cooling	Air cooling
Optimal Working Temperature Range	-10℃~55℃ under -10℃ or above 45℃,power derating
Communication Interface	Modbus RTU/Modbus TCP
IP Grade	IP54
Dimension	1250*1413*2335mm
Weight	2418KGS
Certificates	UN38.3,MSDS,IEC62619(CB),CE-EMC
Warranty	10 years

JA-ESS125KW-261kWh

100kW/215kWhAllinoneACcouple



Features and Advantages

HIGH INTEGRATION

- Highly integrated ESS with outdoor cabinet design provides high-protection class
- Advanced integration technology ensures optional system performance and lower cost

EFFICIENT AND FLEXIBLE

- Control ensures longer battery cycle life and easy for system expansion
- Modular design supports max 10 sets of parallel connection

SAFE AND RELIABLE

- DC electric circuit safety management includes fast-breaking and anti-arc protection
- Multi-state monitoring and linkage actions battery system ensures safety

SMART AND ROBUST

- Fast state monitoring and fault record enables pre-alarm and fault location
- Integrated battery performance monitoring and logging

Application

SPECIFICATION

DC side	
Full load voltage range (V)	615~950 (3W+PE) /680~950 (3W+N+PE)
Maximum current	140A
AC side	
Rated voltage	230/400V
voltage deviation	-10%~+15%
AC output type	(3W+PE) / (3W+N+PE)
Rated output power (kW)	125kW
Maximum output power (kW)	130kW
Maximum current(A)	167A
Rated grid frequency (Hz)	50/60Hz
Power Factor	0.99
Power factor range	1 (Lead) ~1(lag)
Current distortion rate	<3% (Rated Power)
Overload capacity	110% Long term
Maximum discharge efficiency	98.50%
System parameters	
Working Altitude (m)	2000m (above 2000m derating power)
Operating temperature	-10℃~55℃ under -10℃ or above 45℃,power derating
Communication Interface	Modbus RTU/Modbus TCP
Standards compliant	GB/T 34120-2017, GB/T 34133-2017, EN 62477 ,EN IEC 61000 ,EN50549-1
Grid support	L/HVRT, active and reactive power control
Battery System (1P224S)	
Rated Voltage	832V
Nominal Capacity	314Ah
Rated Current	200A
Battery Energy	261.25kWh
Voltage Range	650-949V
Connecting Way	1P224S / 1cluster
Max Efficiency	90%
Cooling	Air Cooling
Optimal Working Temperature Range	-10℃~55℃
IP Grade	IP54
Dimension	1500*1330*2185mm
Weight	2500KGS
Certifications	UN38.3,MSDS,IEC62619(CB),CE-EMC
Warranty	10 years

灵活 Flexible

一体化设计和高度集成，模块化设计，具有不同的可选部件。
Integrated design and highly integrated modular design have different optional components.

易于安装 Easy to install

模块化程度高，结构简单，便于安装与维护。
High degree of modularity, simple structure, easy installation and maintenance.

快速部署 Rapid deployment

便于运输和安装，可以降低基础设施建设成本，缩短施工时间。
Facilitate transportation and installation, reduce infrastructure construction costs, and shorten construction time.

简化设计 Simplified design

即插即用。
Plug and play.

产品参数 parameter

JA POWER ENERGY
Much More Than Grade A

额定电压 Rated energy	循环寿命 cycle life	质保时间 Warranty time	防护等级 Protection level
832V	≥8000次	5年(years)	IP54

产品类型product type	CES-261-L
直流侧参数DC side parameters	
电池电芯battery cells	314Ah
电池串并数Number of batteries in series and parallel	1P552S*5
额定能量Rated energy	261.24kWh
额定电压Rated voltage	832VDC
电压范围voltage range	728-936VDC
交流测参数AC side parameters	
额定充电电流Rated charging current	87A
最大充电电流Maximum charging current	174A
额定放电电流Rated discharge current	87A
最大放电电流Maximum discharge current	174A
充电工作环境温度Charging working environment temperature	-30~55℃
放电工作环境温度Charging working environment temperature	-30~55℃
运行环境温度Operating environment temperature	-30~55℃
一般参数General parameters	
尺寸size	1335.7mm(H)*951mm(W)*2504.2mm(D)
重量weight	≤2.5T
IP等级IP rating	IP54
冷却模式cooling mode	液冷Liquid cooling
冷却剂coolant	50%乙二醇水溶液50% ethylene glycol aqueous solution
制冷量Refrigeration capacity	8.0kw
冷却输入功率Cooling input power	4.55kw
消防等级Fire level	气溶胶+主动预警Aerosol + Active Early Warning

BESSandEVChargerpowerstation,includingresidential&commercialenergystoragebatter

JA-ESS150kW-315kWh

150kW/300kWhMicro-grid

Features and Advantages

- Long Life: Cycle life ≥ 6000 times
- Integrated: All in one design
- Multi brance: Support load, battery and PV
- Easy mantaince: Self-diagnosis and fault location
- Easy management: Ready to work, auto switch on grid/off grid mode

Application

SPECIFICATION

PV Parameters		
MPPT voltage range	DC250V ~ DC850V	
MPPT full power Volt range	DC450V ~ DC850V	
MPPT Quantity	2-4（Optional）	
	AC grid connected parameters	**AC off-grid parameters**
Rated power (kW)	150 kW	
Rated current (A)	180 A	
Rated voltage (V)	AC 380/400/480V(Customized)	380/400V
AC connection	3W+N+PE	
Rated frequency (Hz)	50/60Hz	50/60Hz
Overload capacity		110% long-term
THDi		<3%(Rated power)
THDu	<1%(Linear Load)	
Battery Parameters		
Rated voltage (V)	563.2V	
Nominal Capacity(Ah)	280Ah	
Battery Energy	315.39kWh	
Voltage Range	462-638V	
Connecting Way	2P22S/1 cluster	
Certifications		
Safety(Pack)	UN38.3,MSDS,IEC62619(CB),CE-EMC	
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054	
Module power (kWh)	14.336kWh	
Module Qty	22	
System rated power (kWh)	315.39kWh	
Cycle Life	25℃ 0.5C/ 80%DOD/ SOH80% ≥ 8000 times	
Basic Parameters		
Waterproof grade	IP54	
Working temperature	-10℃~55℃ under -10℃ or above 45℃,power derating	
Relative humidity（No condensation）	0 ~90%	
Cooling	Air cooling	
On and off grid switching dev	<20ms	
Working altitude (m)	2000m (>2000m derating)	
Data display	Touch screen	
Communication Interface	Modbus RTU/Modbus TCP	
Warranty	10 years	

PROJECT CASES

Residential energy storage project

Myanmar

Australia

Israel

Middle east

Mali

The United Kingdom

PROJECT CASES

Commercial & Industry energy storage project

China

Austria

Lithuania

Ireland

Netherlands

Nigeria

Micro-Grid Energy System

Pollution-free green micro-grid system,
controllable and visual micro-grid system

System Architecture

◆ LFP Battery+BMS

◆ Energy Control System（ECS&EMS）
Controller for PV+ESS+DG Hybrid Micro-grid

◆ Fire Suppression System

◆ Air Conditioning

◆ Power Converting System (PCS)

◆ DCDC converter for PV connection

◆ Connecting Box
Interface for Diesel Genset connection, PV input, Load

Specification

System Model	Delta-400-250/430-CE	Delta-800-500/1075-CE	Delta-1600-1000/2150-CE
Battery Parameter			
Battery Capacity	215~430kWh	430~1075KWh	1290~2150kWh
Battery Type	LFP		
PV Input Parameter			
PV Array Power	400kW	800kW	1600kW
PV Connection Method	AC Coupling /DC Coupling		
Diesel Genset /Electric Supply Input Parameter			
Wiring Method	3+N+PE/3+PE,380/400/415V		
Rated Frequency	50/60Hz		
Max. Input Current	455A	911A	1823A
System Output Parameter			
Wiring Method	3+N+PE/3+PE,380/400/415V		
Rated Frequency	50/60Hz		
Rated Power	250kW	500kW	1000kW
Basic Parameter			
System Dimension	2991*2438*2591	6058*2438*2591mm	12192*2438*2591mm
Weight	< 8t	< 21t	< 30t
Cooling Method	Forced air-cooling		
Working Temperature	-30~50℃		
Altitude	2000m		
Ingress Protection	IP54		
Certificates	IEC62619 、UN38.3 、IEC61000 、IEC62477 、NRS-097		

Production series

215kWh~2MWh， 100kW~1MW

Flexible.

Energy Capacity from kWh to MWh

Highly integrated.

Highly integrated system design, efficient for installation and maintenance

Safely designed.

Fire suppression system, temperature management system, battery protection, insulation protection

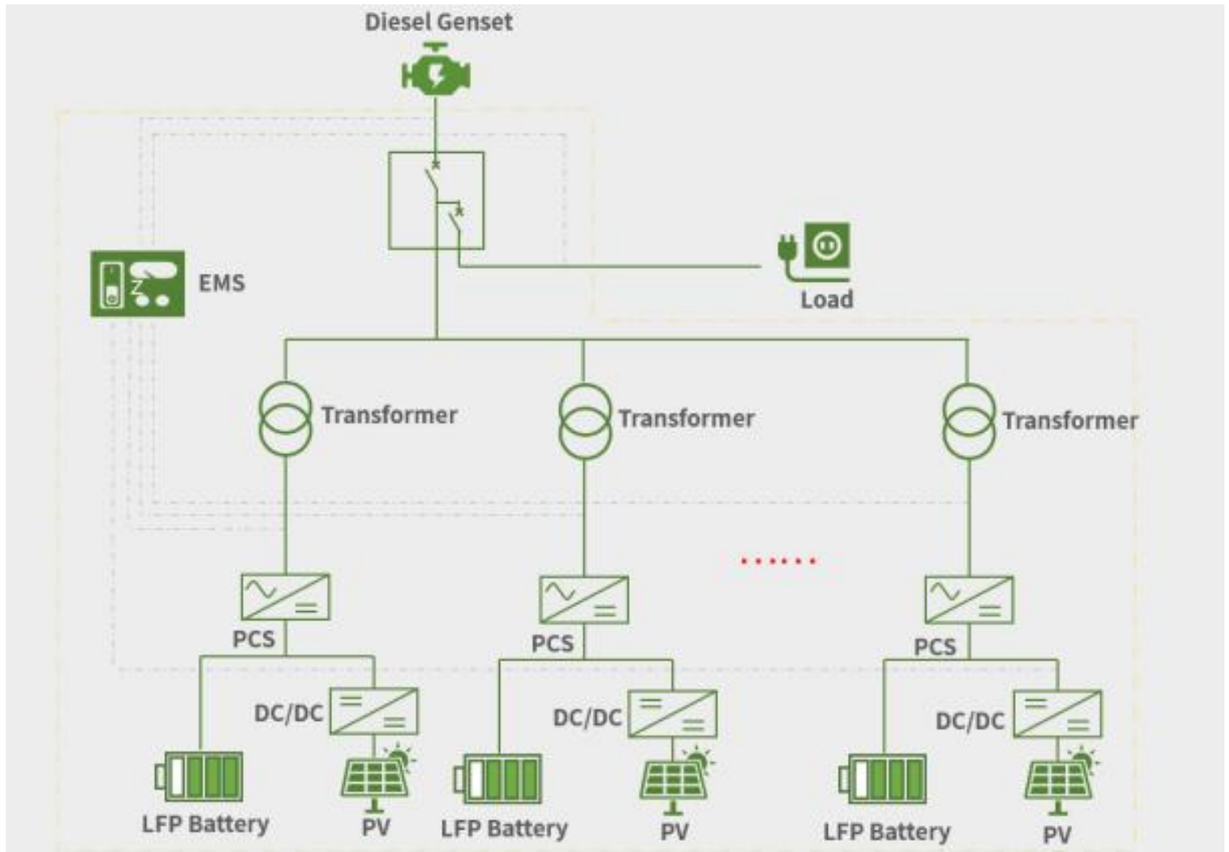
Hybrid.

PV System, Diesel Gensets, Utility Connection can be all connected and collaborating as one

Support AC and DC coupled

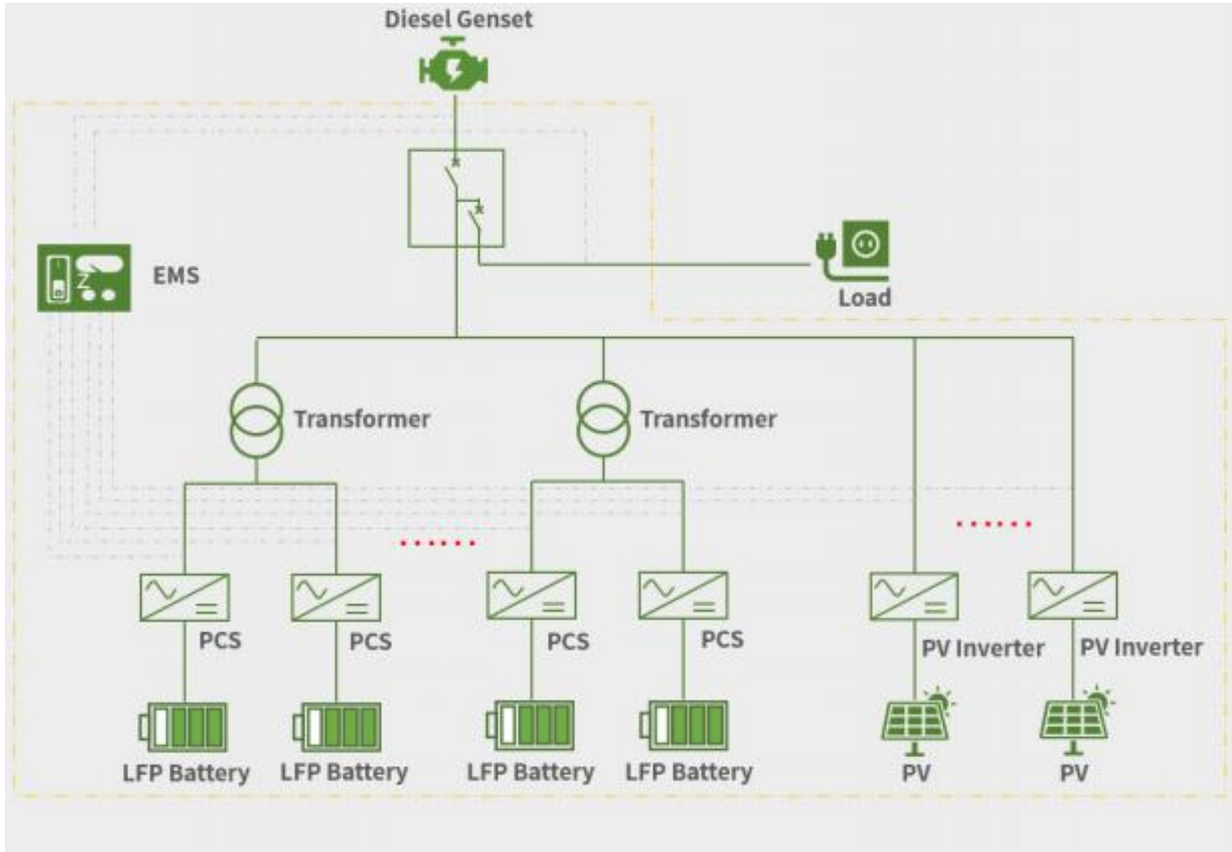
DC coupled PV

PV power is coupled to battery DC bus via DCDC converter

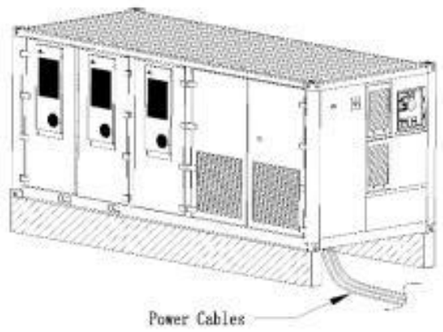
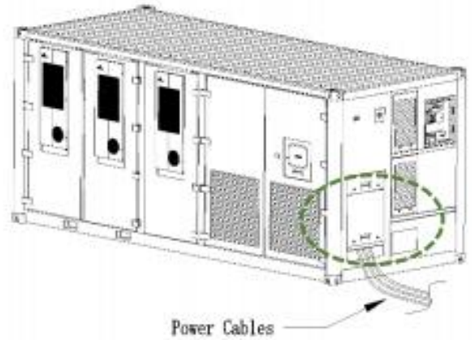


AC coupled PV

PV power is coupled to AC mains via PV inverter



Simple Installation & Fast Commission

	Traditional scheme	MassPoint New generation design
Installation		
Commission	 computer、USB flash disk、Computer cable · · ·	 Integrated ECS&EMS control display
	● special equipment installation foundation ● installation personnel：4 ● Installation completion time:7 days	● only the site to be flattened ● installation personnel：2 ● Installation completion time: 2 day

Hybrid Energy System

A good partner of diesel generators

Optimize diesel generator power supply application scenarios

Specification

◆ LFP Battery+BMS

◆ Energy Control System (ECS&EMS)

Controller for BESS+DG Hybrid energy

◆ Fire Suppression System

◆ Power Converting System

◆ Connecting Box

Interface for Diesel Genset connection, PV input, Load

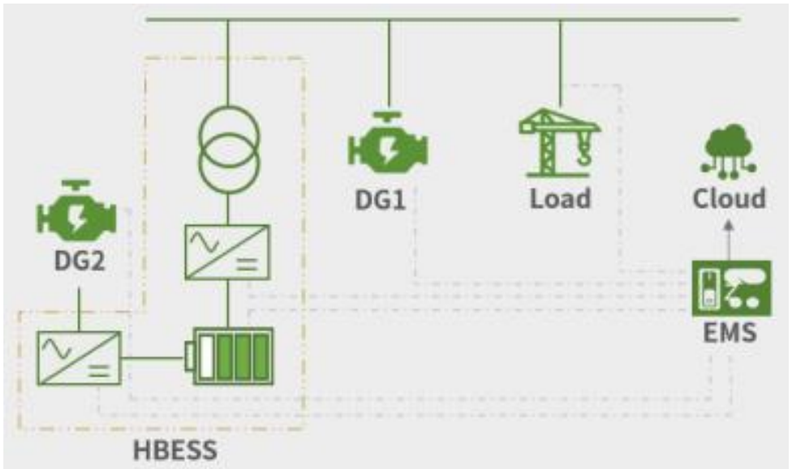
All-In-One

Model	Alpha-250-215-EX	Alpha-400-430-EX
Basic Parameters		
System Capacity	250kW/215kWh	400kW/430kWh
Wiring Method	Three-phase four-wire+PE	
Electrical Parameters		
Rated Power	250 kW	400 kW
Rated AC Current	378 A	607 A
Maximum AC Current	455 A	729 A
Load-Bearing Capacity	≤250kVA, Continuous ≤275kVA, 10min ≤300kVA, 1min	≤400kVA, Continuous ≤440kVA, 10min ≤480kVA, 1min
Rated Voltage	380/400 Vac	
Rated Frequency	50/60 (±2.5) Hz	
On/Off-grid Switching Settings	Yes	
On/Off-grid Switching Time	20 ms	
Battery Parameters		
Total Battery System Capacity	215.04kWh	430.08 kWh
Battery Type	Lithium-iron phosphate battery	
Maximum Continuous Charging Rate	1C@25℃	
Maximum Continuous Discharge Rate	1C@25℃	
Working Temperature Range	Charge0℃~50℃; Discharge-20℃~50℃	
System Parameters		
System Size (WxHxD)	2991×2591×2438 mm	2991×2591×2438 mm
Weight	6630 kg	8530 kg
Ingress Protection Degree	IP54	
Certification	CE（IEC62109）、UN 38.3、IEC62619	
Allowed Altitude	5000 m（Derating above 3000 meters）	
Communication Interface	RS485，Ethernet，CAN2.0	

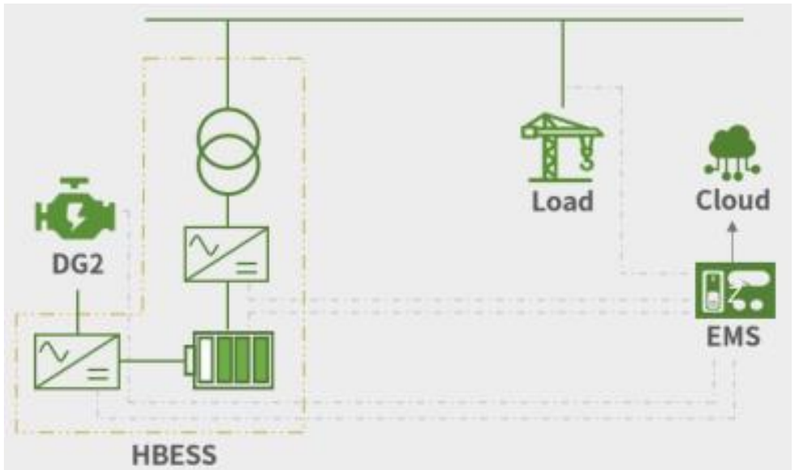
Operating principle

- Extreme reduction in diesel consumption
- Electric power supply is uninterrupted
- Reduce the noise of the power supply equipment
- Reduce pollution and carbon emissions

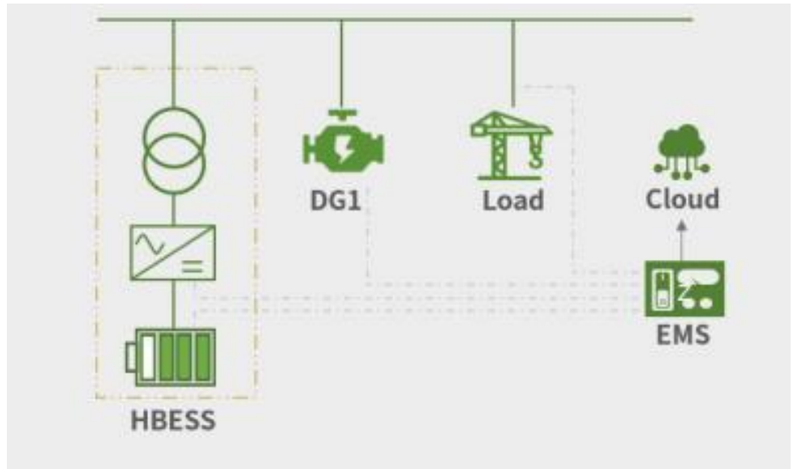
Three modes of operation



- Maximum system output power is DG1+HBESS power
- HBESS power comes from DG1 or DG2

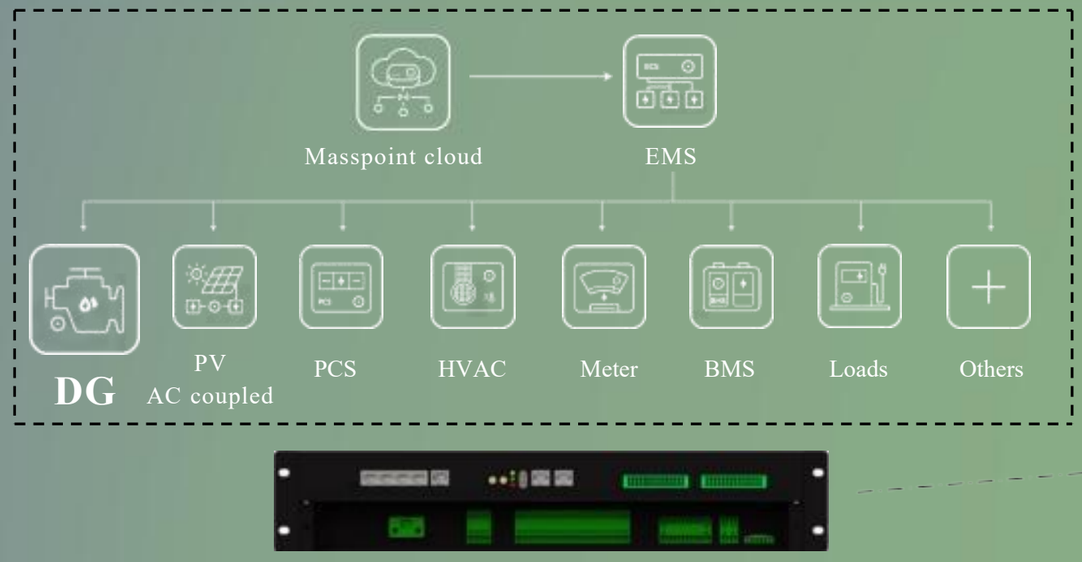


- Maximum system output power is HBESS power
- HBESS power comes from DG2



- Maximum system output power is DG1+HBESS power
- HBESS power comes from DG1

Stronger control system



MassPoint EMS control module

The MassPoint EMS communicates directly with the DG controller

- DG always work at peak efficiency, reduce fuel consumption.
- The entire system control becomes visual.
- The working life of DG is extended and the failure rate of DG is reduced.

Application Case

Only the application can verify the reliability of the product

Application Case 2

- Location: Johannesburg, South Africa
- Operation Type: Solar-ESS-Diesel Hybrid Micro-grid
- Configuration: 250kW/549kWh ESS, 400kVA Diesel Genset, 300kW PV
- Load: Car charging piles
- Environment: Noise sensitive

Application Case 3

- Location: Sichuan
- Operation Type: Diesel and Energy Storage
- Configuration: 400kW/430kWh ESS
  500kVA Diesel Genset
- Load: Mixers, control rooms, boilers
- Environment: Dusty and altitude: 3600m

Application Case 4

- Location: Hong Kong
- Operation Type: Diesel and Energy Storage
- Configuration: 250kW/215kWh ESS
  100kVA Diesel Genset
- Load: tower crane
- Environment: Noise sensistive, Frequent typhoons

Application Case 5

- Location: Hong Kong
- Operation Type: Diesel and Energy Storage
- Configuration: 250kW/250kWh ESS
  250kVA Diesel Genset
- Load: Pump, Electricity for daily use
- Environment: Noise sensistive, Frequent typhoons

JAPOWER BUSINESS MAP

JAPOWER

Global Service center

LOCAL SERVICE CENTERS

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Bangladesh Peru Ukraine Austria Slovakia Czech Republic Yemen Nigeria Spain

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Service Support

Timely & Professional