Shenzhen Beta Technology Co., Ltd.

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With a strong research and development background, Beta is founded with a team of experts from BYD with the aim to provide cost-effective, reliable, and secure energy storage systems for C&I to residential energy storage. with 15 years of experience, it is one of the leading energy storage solution providers covering more than 10 countries across the world.

Our main focus on reliable and customized lithium battery modules, battery systems, and large-scale integrated energy storage systems for years, with a track record of 2GWh in the last 15 years. to make sure about the best cost, fast delivery with project by project.

15

15 Years of Energy Experience

2GWH

It Provides 2GWh of energy to global users

22000m²

2000m² production based providing OEM/ODM Services

200MWH

200 MWh Processing Capacity per Month

Product Catalogue 2023

Product Overview

Low Voltage

Residential ESS
ENP 51100
Slim Series Type
LV-5.12KWh

Residential ESS
ENP 25100
Slim Series Type LV-2.5KWh

Residential ESS
ENP 4891
Slim Series Type
LV-4.67KWh

Residential ESS
ENP 51200 - IP65
Slim Series Type
LV-10.24KWh

Residential ESS
All in One
ENP 5k200
5kWh Inverter
10kWh Battery

Blade Battery Pack

Residential ESS
ENP 5170
Slim Series Type
LV-7.06KWh
BYD Blade Battery

High voltage

Residential ESS
ENP 4020 -IPS65
Slim Series Type
HV-10.24KWh

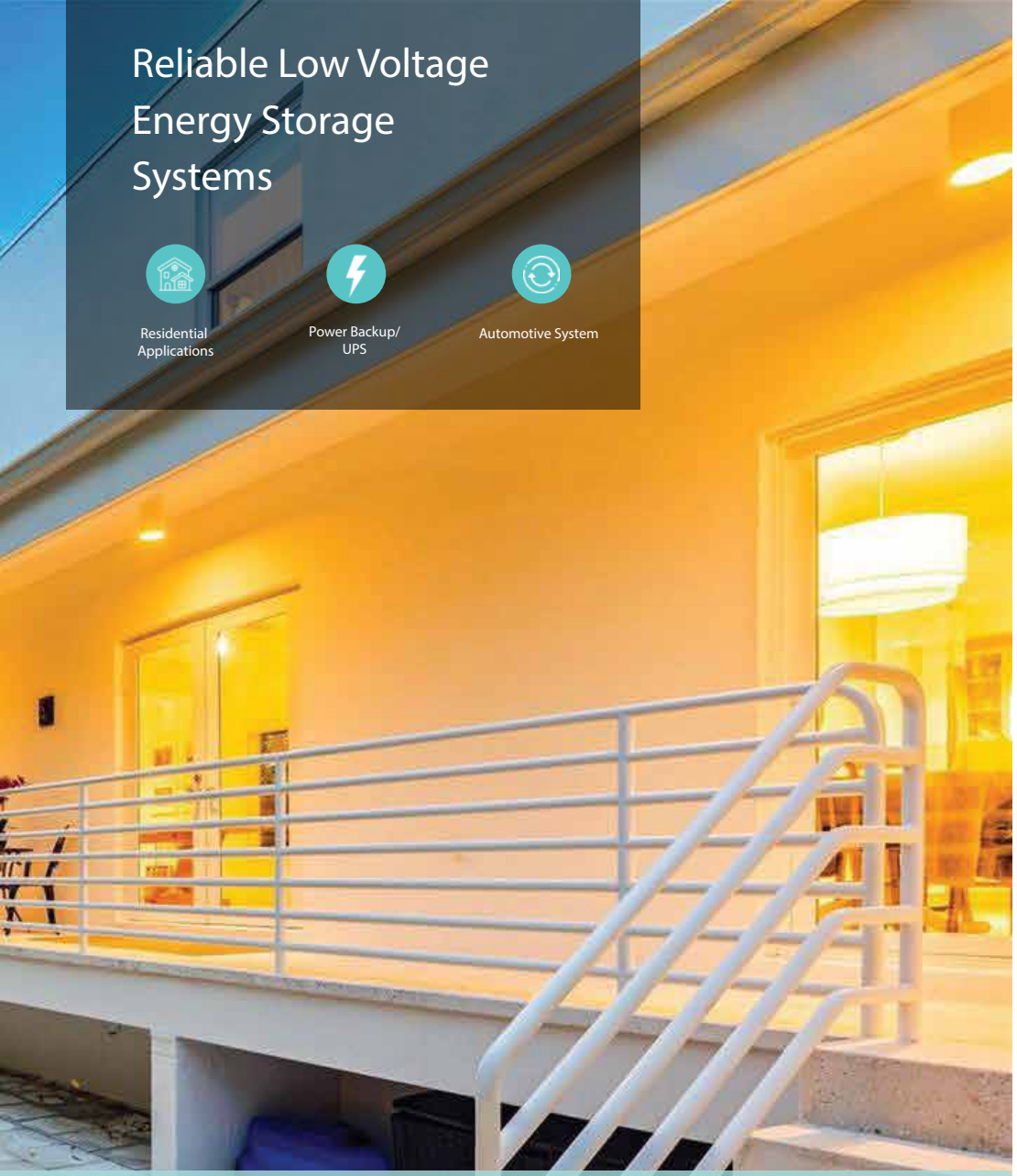
ENP2505
Resdential Series
Stacking ESS-HV
Series

Reliable Low Voltage Energy Storage Systems

Residential Applications

Power Backup/ UPS

Automotive System



Superior Efficiency
Experience maximum efficiency with up to 90% usable energy.

IP20 Protection Rating
Modular designer, natural cooling, indoor use

Flexible Investment Options
Supports up to 16 units in parallel, with a total capacity of up to 40 kWh.

Exceptional reliability
Our LFP-based battery technology ensures consistently high performance.

Expandable Capacity
Effortlessly combine multiple units to increase energy output as needed.

Enhanced Safety Features
Intelligent temperature control guarantees battery safety and longevity.

Eco-friendly Design
Free of heavy metals and corrosive materials for minimal environmental impact.

Extended Service Life
Optimized cycle life exceeds 6000 cycles for long-lasting reliability.

Effortless Installation
Modular design allows for quick and seamless integration.

ENP25100
Residential ESS
Slim Series Type-LV

The Beta residential energy storage system (RESS) ENP25100 series battery packs can work with a solar energy storage systems and optimize system performance ,absorb excessive PV electricity and supply power for residence whenever needed . This product can be wall mounted or floor mounted and allows for parallel connection.

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Technical Specification

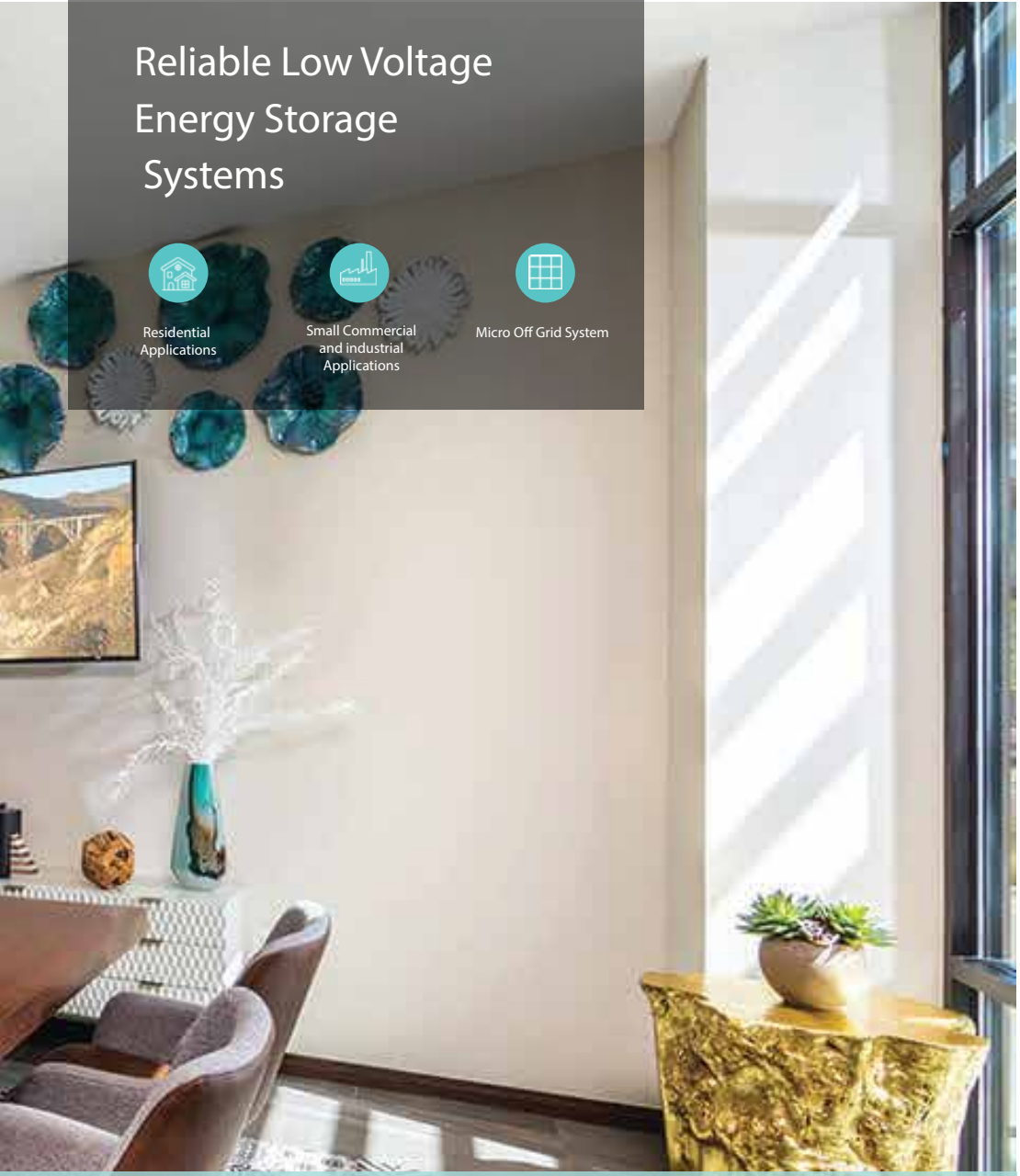
Model no	ENP25100
Battery Module energy	2.56kWh
Useable Energy	2.5kWh
Max output power	2.5kW
Peak Output Power	3.0kW
Nominal voltage	25.6V
Operating Voltage Range	22.4V-28.8V
Dimension(W/D/H)	450x340x90mm
Weight	20Kg
Installation	Floor Stand (Standard), Wall mount (optional)
Operating Tempertaure	-10 C~ + 55C
Operating altitiude	0-3,000 m (Derating above 2,000 m)
Environment	InDoor
Relative humidity	5%~95%
Cooling	Natural Convection
Protection rating	IP20
Noise Emission	0 dB
Cycle Life	>6000 (@25C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	Lithium iron phosphate (LiFePo4)
Scalability	Max 16 Systems in parallel operation
Communication Ports	CAN / RS485
Warranty	5 Years Standard (10 Years Optional)

Reliable Low Voltage Energy Storage Systems

Residential Applications

Small Commercial and industrial Applications

Micro Off Grid System



Superior Efficiency
Experience maximum efficiency with up to 90% usable energy.

IP20 Protection Rating
Modular designer, natural cooling, indoor use

Flexible Investment Options
Supports up to 64 units in parallel, with a total capacity of up to 299 kWh.

Exceptional reliability
Our LFP-based battery technology ensures consistently high performance.

Expandable Capacity
Effortlessly combine multiple units to increase energy output as needed.

Enhanced Safety Features
Intelligent temperature control guarantees battery safety and longevity.

Eco-friendly Design
Free of heavy metals and corrosive materials for minimal environmental impact.

Extended Service Life
Optimized cycle life exceeds 6000 cycles for long-lasting reliability.

Effortless Installation
Modular design allows for quick and seamless integration.

ENP4891
Residential BESS
Slim series type-LV

High energy demand in the morning and evening but solar generation is most efficient during the mid day. Beta Battery storage systems balance the feeding and demands. Realize your grid independence.

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Technical Specification

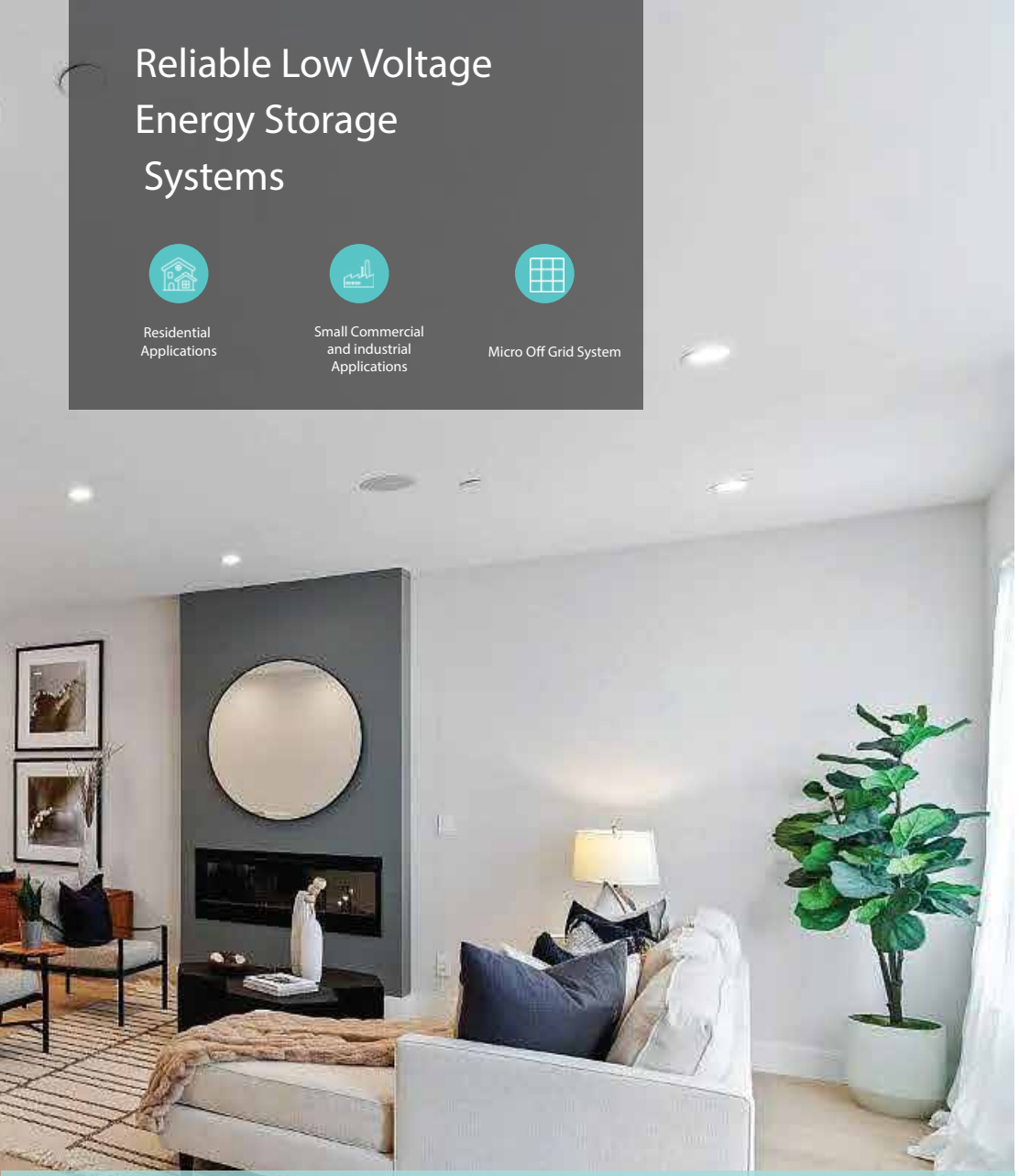
Model no	ENP4891
Battery Module energy	4.36kWh
Useable Energy	4.1kWh
Max output power	4kWh
Peak Output Power	5kW
Nominal voltage	48V
Operating Voltage Range	40V-55V
Dimension(W/D/H)	450x560x89mm
Weight	36Kg
Installation	Rack Mount , Wall mount , Stack mount , Floor mount
Operating Tempertaure	-10 C~ + 55C
Operating altitiude	0-3,000 m (Derating above 2,000 m)
Environment	InDoor
Relative humidity	5%~95%
Cooling	Natural Convection
Protection rating	IP20
Noise Emission	0 dB
Cycle Life	>6000 (@25C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	Lithium iron phosphate (LiFePo4)
Scalability	Max 64 Systems in parallel operation
Communication Ports	CAN / RS485
Warranty	5 Years Standard (10 Years Optional)

Reliable Low Voltage Energy Storage Systems

Residential Applications

Small Commercial and industrial Applications

Micro Off Grid System



Superior Efficiency
Experience maximum efficiency with up to 90% usable energy.

IP20 Protection Rating
Modular designer, natural cooling, indoor use

Flexible Investment Options
Supports up to 64 units in parallel, with a total capacity of up to 327 kWh.

Exceptional reliability
Our LFP-based battery technology ensures consistently high performance.

Expandable Capacity
Effortlessly combine multiple units to increase energy output as needed.

Enhanced Safety Features
Intelligent temperature control guarantees battery safety and longevity.

Eco-friendly Design
Free of heavy metals and corrosive materials for minimal environmental impact.

Extended Service Life
Optimized cycle life exceeds 6000 cycles for long-lasting reliability.

Effortless Installation
Modular design allows for quick and seamless integration.

ENP51100
Residential BESS
Slim series type-LV

High energy demand in the morning and evening but solar generation is most efficient during the mid day. Beta
Battery storage systems balance the feeding and demands. Realize your grid independence.

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Technical Specification

Model no	ENP51100
Battery Module energy	5.12kWh
Useable Energy	5kWh
Max output power	5kWh
Peak Output Power	5.6kW
Nominal voltage	51.2V
Operating Voltage Range	43.2V-57.6V
Dimension(W/D/H)	478x550x89mm
Weight	42Kg
Installation	Rack Mount , Wall mount , Stack mount , Floor mount
Operating Tempertaure	-10 C~ + 55C
Operating altitiude	0-3,000 m (Derating above 2,000 m)
Environment	InDoor
Relative humidity	5%~95%
Cooling	Natural Convection
Protection rating	IP20
Noise Emission	0 dB
Cycle Life	>6000 (@25C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	Lithium iron phosphate (LiFePo4)
Scalability	Max 64 Systems in parallel operation
Communication Ports	CAN / RS485
Warranty	5 Years Standard (10 Years Optional)

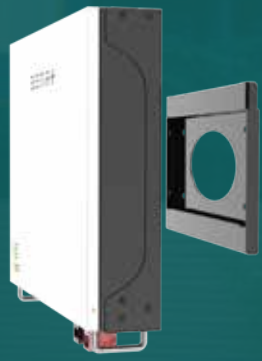
Product Placement

Fast and Easy placement, save time and place.

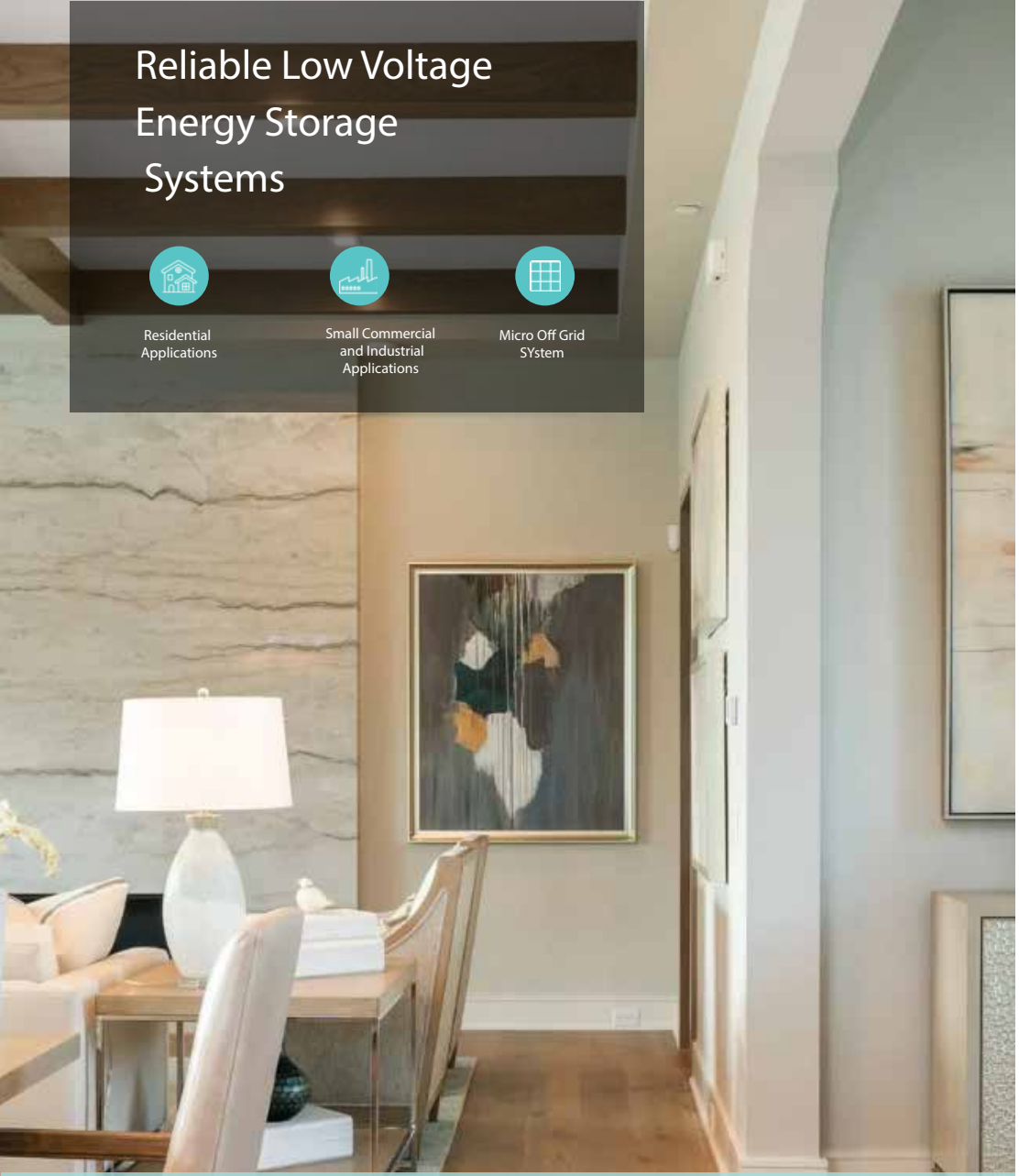
Floor mount

Stack mount

Rack mount



Wall mount



Reliable Low Voltage Energy Storage Systems

Residential Applications

Small Commercial and Industrial Applications

Micro Off Grid SYstem

Superior Efficiency
Experience maximum efficiency with up to 90% usable energy.

IP65 Protection Rating
Water- and dust-resistant, designed to withstand harsh environments.

Flexible Investment Options
Supports up to 32 units in parallel, with a total capacity of up to 326 kWh.

Exceptional reliability
Our LFP-based battery technology ensures consistently high performance.

Expandable Capacity
Effortlessly combine multiple units to increase energy output as needed.

Enhanced Safety Features
Intelligent temperature control guarantees battery safety and longevity.

Eco-friendly Design
Free of heavy metals and corrosive materials for minimal environmental impact.

Extended Service Life
Optimized cycle life exceeds 6000 cycles for long-lasting reliability.

Effortless Installation
Modular design allows for quick and seamless integration.

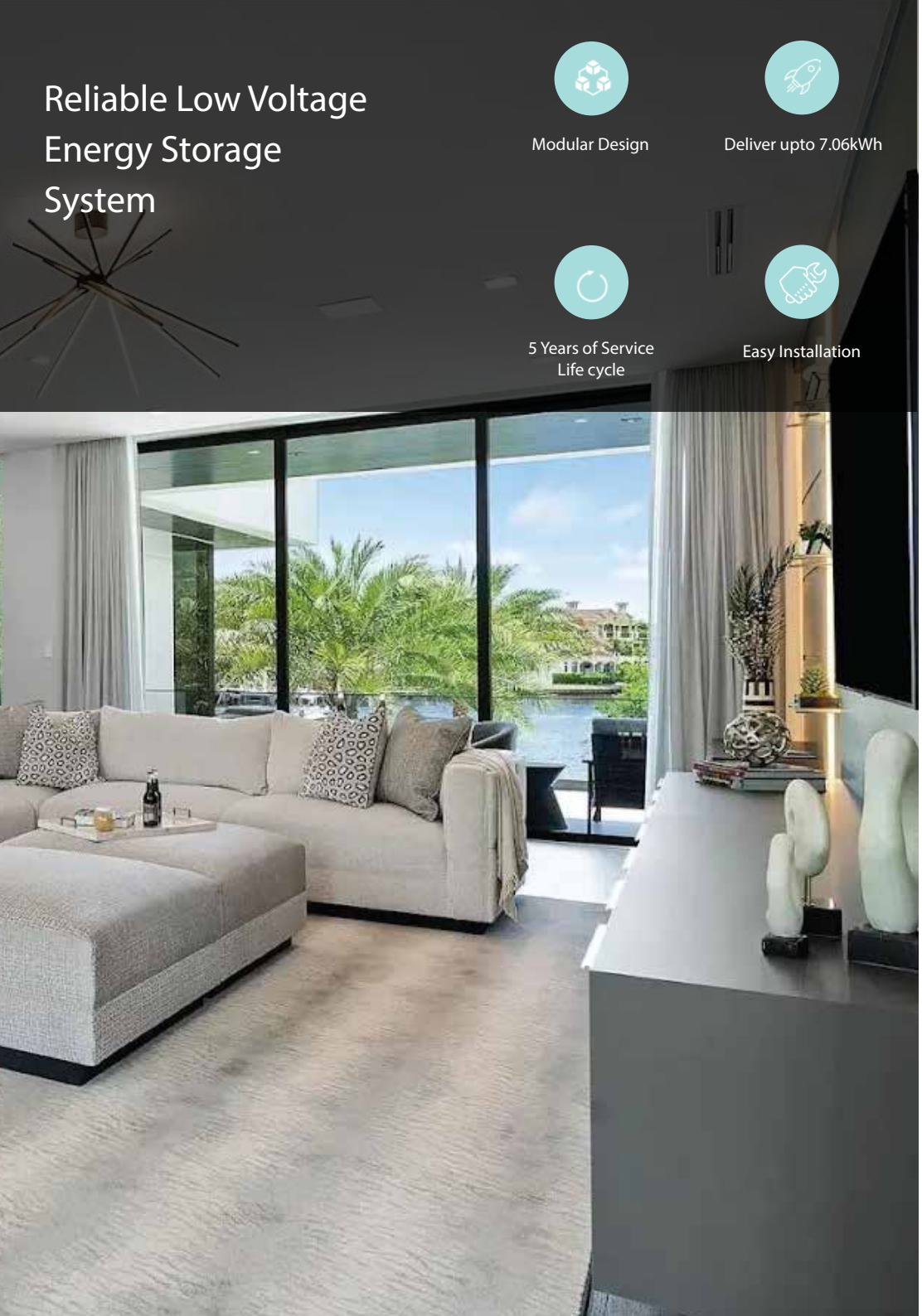
ENP 51200 -IP65
Residential BESS
Slim series type-LV

High energy demand in the morning and evening but solar generation is most efficient during the mid day. Beta Battery storage systems balance the feeding and demands. Realize your grid independence.

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Technical Specification

Model no	ENP51200
Battery Module energy	10.2kWh
Useable Energy	10kWh
Max output power	8kW
Peak Output Power	10kW
Nominal voltage	51.2V
Operating Voltage Range	43.2V-57.6V
Dimension(W/D/H)	600x110x1200mm
Weight	84Kg
Installation	Floor mount , Wall mount
Operating Tempertaure	-10 C~ + 55C
Operating altitiude	0-3,000 m (Derating above 2,000 m)
Environment	InDoor
Relative humidity	5%~95%
Cooling	Natural Convection
Protection rating	IP65
Noise Emission	0 dB
Cycle Life	>6000 (@25C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	Lithium iron phosphate (LiFePo4)
Scalability	Max 32 Systems in parallel operation
Communication Ports	CAN / RS485
Warranty	5 Years Standard (10 Years Optional)



ENP5170
Slim Series Type
LV-7.06KWh
BYD Blade Battery

The battery cell technology that adopts BYD blade batteries.High energy demand in the morning and evening but solar generation is most efficient. during the mid day. BETA Battery storage systems balance The feeding and demands.Realize your grid independence

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Technical Specification

Model no	ENP5170
Battery Module energy	7.06kWh
Useable Energy	6.9Wh
Max output power	5kW
Peak Output Power	5.6W
Nominal voltage	51.2V
Operating Voltage Range	43.2V-57.6V
Dimension(W/D/H)	1090x580x80mm
Weight	75Kg
Installation	Wall Mount
Operating Tempertaure	-10 C~ + 55C
Operating altitiude	0-3,000 m (Derating above 2,000 m)
Environment	InDoor
Relative humidity	5%~95%
Cooling	Natural Convection
Protection rating	IP20
Noise Emission	0 dB
Cycle Life	>6000 (@25C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	BYD Blade Battery (LiFePo4)
Scalability	Max 32 Systems in parallel operation
Communication Ports	CAN / RS485
Warranty	5 Years Standard (10 Years Optional)

ENP 5k200
All in One
5kWh Inverter
10kWh Inverter

The ENP5k200 is an all in one Energy Storage System (ESS) designed to achieve the highest efficiency using FWS inverter technologies. This unique ESS allows bi-directional energy flow with the grid and it has DC inputs to enable renewable power generation even during a grid loss situation.

- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Technical Specification

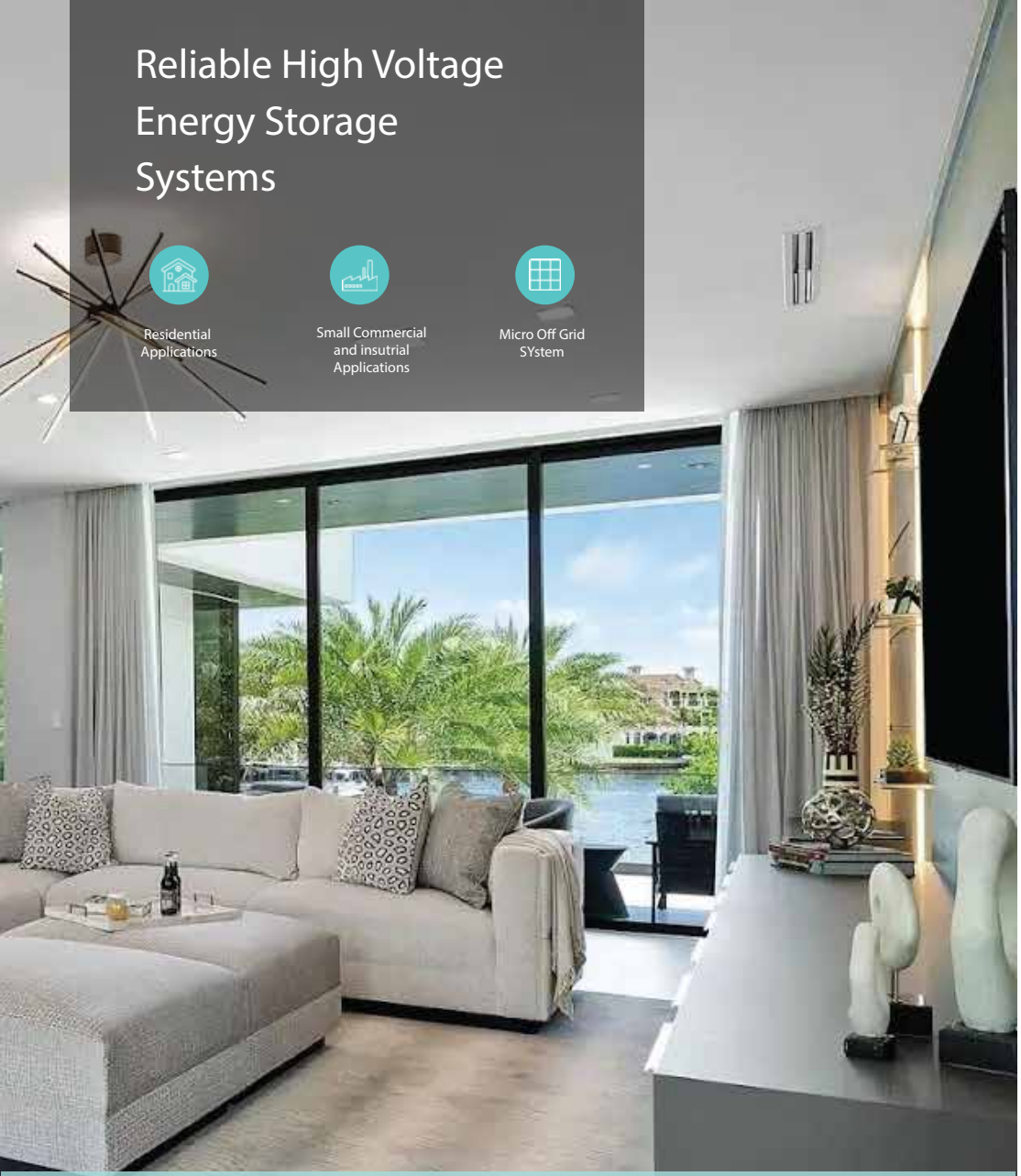
Model no	ENP5k200
	AC Input/Output Parameters
Ac Input voltage	AC 230 V
Optional Voltage	170-280V AC(Personal Computer)
Optional Voltage	90-280v AC(Home Load)
Frequency Range	50Hz/60Hz (Auto Sensing)
Max AC Charge Current	60A @DC 57.6V
AC Output Voltage	230V AC ±5%
Efficiency (Peak)	Upto 93.5%
Transfer Time	10ms (Personal Computer); 20ms (Home Load)
Surge Power	11000VA
Waveform	Pure Sine Wave
PV Voltage Range	120V-450V DC
Max. PV Open Circuit Voltage	500V DC
Max. Solar Charge Current	100A @ 57.6 DC
Max. PV Array power	6000W
	Battery Parameters
Battery Type	Lithium iron phosphate
Normal Voltage	51.2V
Normal Capacity	10.24kWh
Useable Capacity	10kWh
Operating Voltage	48~57.6V
Rated Charging current	50A
Max Charging Current	100A
Recycle Time	≥6000 (@25C, DoD 90%)
	Enviorment Requirments
Humidity	5% to 90% Relative Humidity
Battery Recycle TIme	≥6000 (@25C, DoD 90%)
Operating Temprature	-10°C to 50°C
Storage Temrature	-10°C to 60°C
Warranty	5 Years

Reliable High Voltage Energy Storage Systems

Residential Applications

Small Commercial and insutrial Applications

Micro Off Grid SYstem



Superior Efficiency
Experience maximum efficiency with up to 90% usable energy.

IP65 Protection Rating
Water- and dust-resistant, designed to withstand harsh environments.

Flexible Investment Options
Supports up to 3 units in parallel, with a total capacity of up to 30 kWh.

Exceptional reliability
Our LFP-based battery technology ensures consistently high performance.

Expandable Capacity
Effortlessly combine multiple units to increase energy output as needed.

Enhanced Safety Features
Intelligent temperature control guarantees battery safety and longevity.

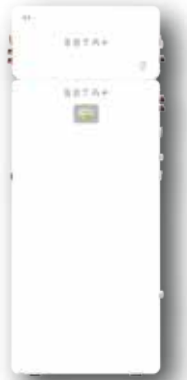
Eco-friendly Design
Free of heavy metals and corrosive materials for minimal environmental impact.

Extended Service Life
Optimized cycle life exceeds 6000 cycles for long-lasting reliability.

Effortless Installation
Modular design allows for quick and seamless integration.

ENP4020
Residential BESS
Slim series type-HV

The Beta residential energy storage system (RESS) ENP4020 series battery packs can work with a solar energy storage systems and optimize system performance ,absorb excessive PV electricity and supply power for residence whenever needed . This product can be wall mounted or floor mounted and allows for parallel connection.



- Auto ID
- Automatically assign any host
- Smart Temperature Control
- Smart parallel technology compatible with batteries with different SOC and voltages

Technical Specification

Model no	ENP4020
Number of power modules	1
Battery module Energy	10kWh
Useable energy	9.8kWh
Max Output Power	5kW
Peak Output Power	7kW, 10s
Nominal Voltage	400V
Operating Voltage range (Single Phase)	350V-430V
Dimension (W/D/H)	1470x110x600mm
Weight	90Kg
Power Module Dimension (W/D/H)	20x110x600mm
Power Module Weight	8kg
Battery Module Dimension (W/D/H)	1200x110x600mm
Battery Module Weight	80kg
Installation	Floor stand (Standard), Wall mount (optional)
Operating Temperature	10C~+55C
Operatign Altitude	0-3000 m (Derating above 2000 m)
Environment	Indoor/Outdoor
Relative Humidity	5%~95%
Cooling	Natural Convection
Protection Rating	IP65
Noise Emission	29db
Cycle Life	>6000 (@25C, DoD 90%)
Display	SOC Status indicator LED Indicator
Cell Technology	Lithium iron phosphate (LiFePo4)
Scalablity	Max 3 Systems in parallel operation
Communication Ports	CAN / RS485
Warranty	5 Years Standard (10 Years Optional)

LIFEPO4 Battery ENPHAA-10kWh/15.3kWh /24.4kWh

Modular Design

Deliver upto 25kWh

5 Years of Service Life cycle

Easy Installation

LIFEPO4 Battries ENPHSS-10kwh/15.3kWh/24.4kWh

Technical Specification

Type		ENPHSS-10-E1	ENPHSS-15-E1	ENPHSS-20v-E1
Control Model	Model	ENPHC-500V25A-A		
	Quantity	1	1	1
Battery Pack	Model	ENPHC-102V50A-A		
	Quantity	2	3	4
Base	Model	ENPHC-25A-A		
	Quantity	1	1	1
Voltage Range		185.4V~239.4V	240V~345.6V	320V~460.8V
Capacity		50Ah		
Max. Charging Voltage		25Ah		
System Energy		10.2kWh	15.3kWh	20.4kWh
Certification	Shipping	U38.3		
	EMC	CE (IEC61000-6-1, IEC61000-6-3)		
	Safety Regulation	IEC62619		
General Parameters	Dimention	670*960*200mm	670*1240*200mm	670*1520*200mm
	Weight	110kg	160kg	210kg
	Installation	Floor Standing/ Wall-mounted		
	Temp	-10ºC~50ºC		
	Humidity	0~100%		
	Protection	IP65		