

NSR

Powered by

VAV

ENERGY PRO

CLEAN ENERGY
FOR A BRIGHTER
TOMORROW

ENERGY STORAGE
SOLUTIONS FOR A
SUSTAINABLE FUTURE

PRODUCT CATALOG

POWERING PEOPLE
EMPOWERING INDUSTRY



SOLAR
SYSTEMS



ENERGY
STORAGE



INDUSTRIAL
SOLUTIONS



SUSTAINABLE
GROWTH

www.energypro.hu



PRODUCT OVERVIEW

The NSR BESS is a secure, integrated Battery Energy Storage System engineered to deliver reliable, flexible, and efficient energy management.

Its mobile and modular design combines advanced battery technology, a Power Conversion System (PCS), intelligent energy controls, HVAC, fire protection, and auxiliary components, with configurable options to meet diverse application requirements.

Designed for seamless integration with PV power plants, AC generators, and the electrical grid, the NSR BESS enables optimized energy utilization and enhanced power resilience.

ENGINEERED FOR

LOW-EMISSION & LOW-NOISE OPERATION

It reduces grid dependency, enhances power quality and reliability, and provides stable, uninterrupted power for critical and emergency loads.

PV INTEGRATION

AC GENERATOR

GRID CONNECTED



NSR

C PLUS 261 2H

125 kW / 261 kWh | 0.5 C

C&I All-in-one ESS

Up to 90%

System Round-Trip Efficiency (RTE)

≥ 8,000 cycles

System Cycle Life

≤ 3°C

Cell Temperature Difference

CATL

Battery Cells Available

IP55

Protection Rating

1.3m²

Minimize Land Occupation

-  **Wide Temperature Range**
Standard -30°C low-temperature operation
-  **Eco-Friendly & Ultra-Quiet**
Minimum average operating noise ≤65 dB
-  **AI-Powered Temperature Control System**
Lower self-consumption, ≤ 3°C cell temp. difference
-  **Safety from Cell-to-System**
Pack-level fire suppression available, early stage warning
-  **Rapid FFR/FCR-D Response**
Supports pre-commissioning with various VPP partner
-  **Certified to Safety Standards**
UL9540A & IEC62933
-  **Fast Installation and Commissioning**
Plug-and-play, all-in-one design, flexible deployment
-  **Multiple Grid-Compliant Certifications**

Applications

C&I grid-tied
VPP

Peak
shaving

Demand control
application

Black start
compatible

Seamless on/off-grid
switching

AC Output Data(On-grid)

Nominal Output Power(kW)	125
Nominal Output Voltage(V)	400,3L/N/PE
Nominal AC Grid Frequency(Hz)	50/60
Max. AC Output Current(A)	200
Nominal Output Current(A)	180
Power Factor	-1~+1
Max. Total Harmonic Distortion	<3%

Battery Data

Pack Nominal Energy (kWh)	52.2496
Battery Pack Configuration	1P52S
Number of Packs	5
Rack Nominal Energy(kWh)	261.248
Nominal Voltage(V)	832
Operating Voltage Range(V)	728-936
Max. Charge/Discharge Current(A)	180
Max. Charge/Discharge Power(kW)	138
Cycle	8000

Efficiency

System Round Trip Efficiency	up to 90%
Ingress Protection Rating	IP55(Battery Cabinet)
Anti-Corrosion	C4(C5 Optional)
Fire Suppression	Aerosol / Water

General Data

Working Temperature Range(°C)	-30~+55
Derating Temperature(°C)	45
Storage Temperature(°C)	-20~+45(1 month)0~+35(1 year)
Relative Humidity	0~95%
Max. Operating Altitude (m)	3000m (Derating above 2000m)
Cooling Method	Smart Liquid Cooling
Display	Web/LED
Communication Protocol	Modbus TCP
Weight(kg)	2550±50
Dimension(W×H×D mm)	990*2300*1320
Noise Emission(dB)	≤65
Topology	Non-Isolated
Audible and Visual Alarm	Optional
Explosion Venting Function	Standard
Pack-Level Fire Protection	Optional
Fire Water Connection	Standard
Standards&Certification	UL9540A,IEC62933-5-2,IEC 62619,IEC 63056, IEC62477-1,IEC 61000-6-2/-4,UN38.3
Grid Code	EN50549-1/2/10, G99/G100, VDE-AR-N 4105/4110/4120, AS4777 etc.

NSR

C PLUS 261 Hybrid

C&I Hybrid Cabinet

The NSR-C PLUS 261 Hybrid is an integrated liquid-cooled PV-plus energy storage cabinet that combines lithium battery modules, a fire suppression system (FSS), and an embedded EMS into a single compact unit. Its integrated design simplifies system architecture and installation, while the modular structure allows flexible capacity expansion as project requirements grow. When used with a hybrid inverter and intelligent energy management, the cabinet supports multiple operating modes, enabling efficient coordination between PV generation, energy storage, and load demand.



Higher Space Utilization

1.4m² Footprint, larger capacity per cabinet, saving space and site cost.



Versatile

Support multiple brands of hybrid inverter, with higher selectivity.



Safe & Reliable

IP55, optimized ventilation design, temperature difference within 3°C.



High PV Utilization Capability

Supports up to 250 kW PV input with wide MPPT voltage range for flexible PV system design.



Expandable & Modular

Easy modular design supports parallel connection for convenient system expansion.



Simplified System

Sufficient power for most C&I applications, reducing parallel inverters.

AC Output Data(On-grid)

Nominal Output Power(kW)	125
Nominal Output Voltage(V)	400,3L/N/PE
Nominal AC Grid Frequency(Hz)	50/60
Max. AC Output Current(A)	200
Nominal Output Current(A)	180
Power Factor	-1~+1
Max. Total Harmonic Distortion	<3%

Battery Data

Pack Nominal Energy (kWh)	52.2496
Battery Pack Configuration	1P52S
Number of Packs	5
Rack Nominal Energy(kWh)	261.248
Nominal Voltage(V)	832
Operating Voltage Range(V)	728-936
Max. Charge/Discharge Current(A)	180
Max. Charge/Discharge Power(kW)	138
Cycle	8000

Efficiency

System Round Trip Efficiency	up to 90%
Ingress Protection Rating	IP55(Battery Cabinet)
Anti-Corrosion	C4(C5 Optional)
Fire Suppression	Aerosol / Water

General Data

Working Temperature Range(°C)	-30~+55
Derating Temperature(°C)	45
Storage Temperature(°C)	-20~+45(1 month)0~+35(1 year)
Relative Humidity	0~95%
Max. Operating Altitude (m)	3000m (Derating above 2000m)
Cooling Method	Smart Liquid Cooling
Display	Web/LED
Communication Protocol	Modbus TCP
Weight(kg)	2550±50
Dimension(W×H×D mm)	990*2300*1320
Noise Emission(dB)	≤65
Topology	Non-Isolated
Audible and Visual Alarm	Optional
Explosion Venting Function	Standard
Pack-Level Fire Protection	Optional
Fire Water Connection	Standard
Standards&Certification	UL9540A,IEC62933-5-2,IEC 62619,IEC 63056, IEC62477-1,IEC 61000-6-2/-4,UN38.3
Grid Code	EN50549-1/2/10, G99/G100, VDE-AR-N 4105/4110/4120, AS4777 etc.

NSR-STS

250 / 500 / 800

STS Cabinet



NSR - STS 250/500/800 is a seamless on/off-grid switching

cabinet designed for the 125kW rated power all-in-one ESS cabinet within 20ms switching time. It enables on/ off-grid switching for single or multiple parallel-connected application.

Equipped with reserved ports for critical loads connection, allowing for the normal operation of loads in grid outage condition.



Intelligent Collaboration

Seamless on/off-grid switching within 20ms



High Integration

Integrate STS, UPS, meter, breakers, ATS(optional) & other accessories in one system, compact & easy transportation



Reliable

Leading brands selection of all equipments, safe and reliable



Electrical Safety

Backup design and assurance of critical loads without Interruption

ESS Side Parameters	NSR-STS 250	NSR-STS 500	NSR-STS 800
Max. No. of ESS Connection	1 unit	3 units	5 units
Max. ESS Current	1*200A	3*200A	5*200A
Rated ESS Power	1*125kW	3*125kW	5*125kW

Grid Side Parameters

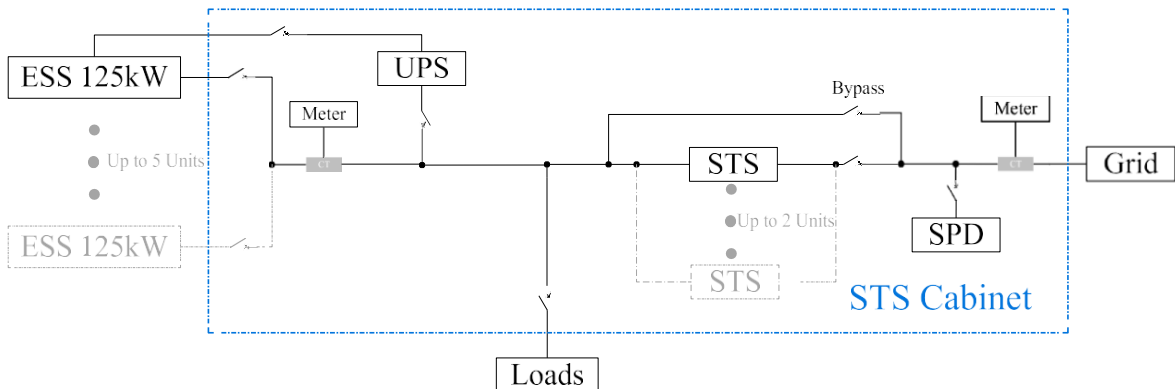
No. of Grid Connection Port	1		
Max. Grid Current	200A	600A	1000A
Grid Voltage Range	400V±15%		
Grid Type	3W+N+PE		
Rated Frequency	50/60Hz		
On/off- Grid Switchin Time	20ms		

Auxiliary Equipments Parameters

UPS	Standard
Maintenance Socket	Standard, 16A
Surge Protection	AC Type II
Meter Accuracy	0.5S

General Parameters

Max. Grid Current	200A	600A	1000A
Altitude	3000m		
Ambient Temperature	-15°C~45°C		
Humidity	0~95%RH (Non-Condensing)		
Cooling Method	Air Cooling		
IP Rating	IP54		
Communication	RS485, Modbus TCP/IP		

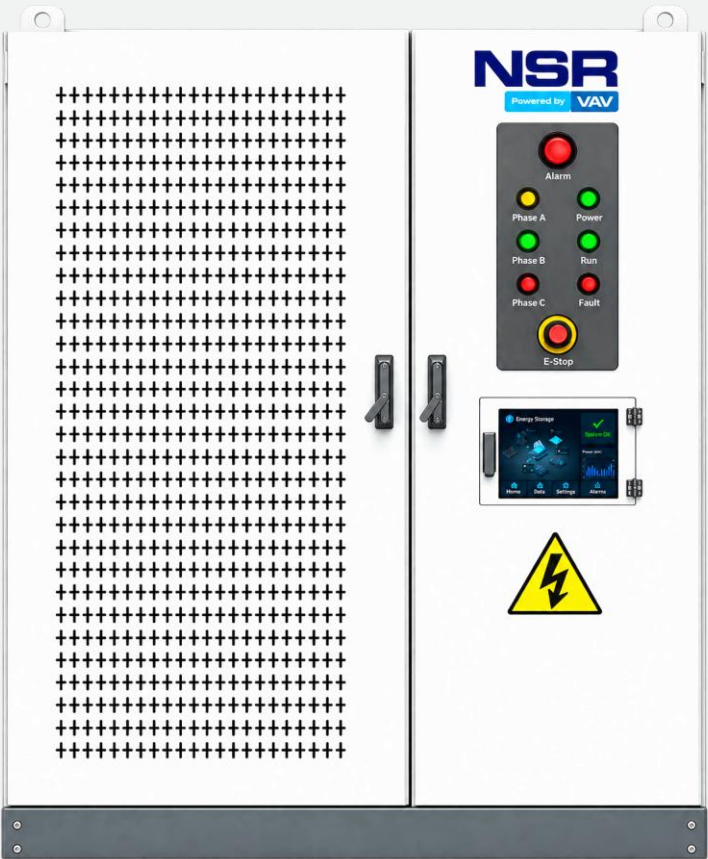


NSR

M 520

ESS Microgrid with PV+DG

The 520kW reverse dc-coupled integrated photovoltaic-storage-diesel microgrid system features a prefabricated, integrated architecture enabling plug-and-play rapid deployment. It delivers millisecond-level (less than 20 ms) seamless switching between grid-connected and off-grid modes, with adaptive operation across multiple modes. This system provides efficient, stable, and cost-effective uninterrupted power supply for off-grid, weak-grid, and



remote scenarios, significantly enhancing clean energy integration capabilities and the long-term investment value of power systems.

Redefine the technical standards for off-grid microgrid power supply across six dimensions

Efficiency	Load Capacity	Reliability
Cost-effectiveness	Environmental Compatibility	Intelligent Scheduling



Reverse DC Coupling Architecture



STS with Millisecond-level Seamless Switching



Sic Three-Phase Four-Leg PCS



All-scenario High reliability Design



2X Photovoltaic Over-provisioning + μ s-level Dynamic Control Built-in



Cloud-edge Integrated Intelligent EMS

Model	Parameter	Remark
PV Input Parameters		
MPPT voltage range	250V-950V	
Full load voltage range	580V-700V	DC voltage - PV voltage>20V
MPPT quantity	Channel 8	The device supports up to 12 units and can be configured with 2x PV.
Max photovoltaic power(kW)	780kW	
Maximum current per MPPT channel	168A	
Maximum short-circuit current per MPPT channel	210A	
MPPT Maximum Tracking Accuracy	≥99.9%	
DC Battery Side Parameters		
Rated power(KW)	520kW	
Full load voltage range	650V-950V	
Maximum current	880A	
AC Network Side Parameters		
Rated power	1380kW	
Rated voltage	400V	Range 340-460V
Rated current	1504A	Maximum 2000A
Rated frequency	50Hz/60Hz	Range ±5Hz
Power factor	>0.99	
THDi	<1.5%(100% PN) , <5%(≥20%PN)	
AC Load Side Power		
Rated power	520kW	
Rated voltage	400V	Range 340-460V
Rated current	752A	
Rated frequency	50Hz/60Hz	
THDu	1%	Linear load
Unbalanced load capability	100%	
Overload capacity	110%: Long-term operation; 120%: at least 1 minute 150%: Not less than 1 second(at a constant temperature of 35°C)	
System Parameters		
Ambient temperature range	-30°C~70°C Full power operation at an ambient temperature of 50°C; derating operation at an ambient temperature of 50-70°C. Start-up supported at -30°C.	
Storage temperature range	-40°C~75°C	
AC/DC surge protection	TYPE II	
Cooling method	Intelligent air cooling	
Permissible altitude	4000m(Derating above 3000m)	
Relative humidity	0~95%(no condensation)	
Protection grade	IP55	
Noise Level	<75dB	
Isolation methods	Non-isolation	
Maximum efficiency	97%	
On/Off-grid Switching Time	<20ms	
Dimensions(W*D*H)	2200*1350*2300	
Weight	2500kg	Current estimated weight
Display method	7-inch industrial LCD touchscreen HMI	Standard configuration
Local Communication methods	RS-485/CAN/Enet	4G and other technologies require customers to provide their own routers.
Communication Protocol	RTU/CAN2.0B/TCP	

NSR

I-156 1H

150kW/156kWh | 1C



C&I All-in-one ESS

The NSR1 156 1H is a flexible modular C&I energy storage system offering AI-driven smart management, rapid FFR/FCR-D response, and efficient, economical operation. With IP55 protection, C4/C5 corrosion resistance, and flexible installation options, it delivers safe and reliable performance for diverse commercial and industrial deployments.

IP55

Protection level

Efficient & Economical

System efficiency $\geq 89\%$

 Flexible Modular Design

 Rapid FFR/FCR-D Response

 Smart Management and Easier O&M

Model	I01-90KN-94	01-100KN-1041	I01-110KN-114	I01-120KN-125	I01-120KN-135	I01-150KN-156
Battery Data						
Cell Type	LFP					
Rated Capacity	102Ah					
Serial-Parallel Type	2P144S	2P160S	2P176S	2P192S	2P208S	2P240S
Rated Capacity Per Pack	10.444kWh					
Pack Number	9	10	11	12	13	15
System Rated Energy Capacity	93.996kWh	104.44kWh	114.884kWh	125.328kWh	135.772kWh	156.66kWh
Rated DC Voltage	460V	512V	563V	614V	665V	768V
Rated DC Voltage Range	403~518V	448~576V	492~633V	537~691V	582~748V	672~864V
AC Date						
Rated AC Power	90kW	100kW	110kW	120kW	120kW	150kW
Rated AC Voltage	400Vac					
Rated Frequency	50/60Hz					
Rated AC Current	129A	144A	158A	173A	173A	216A
AC Wiring Type	3W/N+PE					
Power Factor	-0.8~0.8					
General Data						
DOD	DOD 95%					
Noise	≤75dB					
Protection Degree	IP54					
Cooling Method	Intelligent Fan Cooling					
Fire Suppression System	Novec 1230+Aerosol					
Operating Temperature Range	-30°C~60°C(> 45°C Derating)					
Relative Humidity	0%~95%RH(Non-Condensing)					
Max.Working Altitude	2000m					
Display	LED+Touch Screen(Optional)					
Com Interfaces	WiFi+LAN+4G					
Dimensions (L*W*H)	1500*1600*2200mm					
Weight	2290±50kg	2375±50kg	2460±50kg	2545±50kg	2630±50kg	2800±50kg

NSR

C100/120 2H

C & I Air - C o o l e d H y b r i d C a b i n e t



The NSR C 100/120 2H series is a professional PV-plus ESS solution, designed on ESS integration and digital monitoring technologies. The cabinet integrates components such as lithium battery, HVAC, fire suppression system (FSS), and EMS. With compact structure, it enables easy installation and flexible capacity expansion. Paired with hybrid inverter, the ESS supports multiple work modes and various operation strategies

	Economical & Efficient	RTE up to 90%, DOD up to 100%.
	Safe & Reliable	IP55, optimized ventilation design, temperature difference within 6°C.
	Compact & Convenient	0.96m ² Footprint, easy to transport and install.
	Expandable & Modular	Easy modular design supports parallel connection for convenient system expansion.
	Versatile	Support multiple brands of hybrid inverter, with higher selectivity.
	PV Pluggable	Support PV connection, with higher integration.
	Self-Developed	LFP314Ah battery cell system integration, leading cost advantage, 3S fusion.
	Easy O&M	Support multiple ways of operation and maintenance, including onsite, cloud.

Battery Cabinet	NSR -C 100 2H		NSR-C 120 2H
Cell Type	LFP/314Ah		LFP/314Ah
Pack Configuration	20.096kWh/1P20S		20.096kWh/1P20S
System Configuration	100.48kWh/1P100S		120.576kWh/1P120S
Rated DC Voltage	320V		384V
DC Voltage Range	280~360V		336~432V
Max. Charge/Discharge Rate	0.5P		
Max. Depth of Discharge	100%(25±2°C)		
Cycle Life	≥8,000		
PV Input			
Max. Input Power	60kW	80kW	100kW
PV Voltage Range	150~850V	150~850V	150~850V
MPPT	3	4	4
Max. Input Current	40A*3	40A*4	40A*4
AC Side			
Rated Output Power	30kW	40kW	50kW*
Rated AC Voltage	400V		
AC Voltage Range	±15%		
Grid Type	3W+N+PE		
Rated Frequency	50Hz/60Hz		
Power Factor	0.99/-0.8~+0.8		
THDi	≤3%		
DC Ratio	DC < 0.5I _{pn}		
General			
Max. Round Trip Efficiency	90%		
Communication	Modbus TCP/IP		
Fire Suppression System	Aerosol		
Ingress Rating	IP55		
Cooling	Air Cooling		
Operating Temperature	-25°C~55°C (Derating After 45°C)		
Anticorrosion Rating	C4(C5 optional)		
Humidity	0~95%RH (Non-Condensing)		
Altitude	3000m (Derating above 2000m)		
Dimensions (WDH)	800*1,200*2,100mm		
Weight	1200kg		
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4		
Grid Code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11		

NSR-H418 2H

418kWh | 0.5C

Long-life battery cells

NSR-H418 2H storage system is meticulously designed to enhance system safety, improve energy efficiency, and optimize cost-effectiveness, striving for comprehensive performance optimization of energy storage solutions.

Safety:

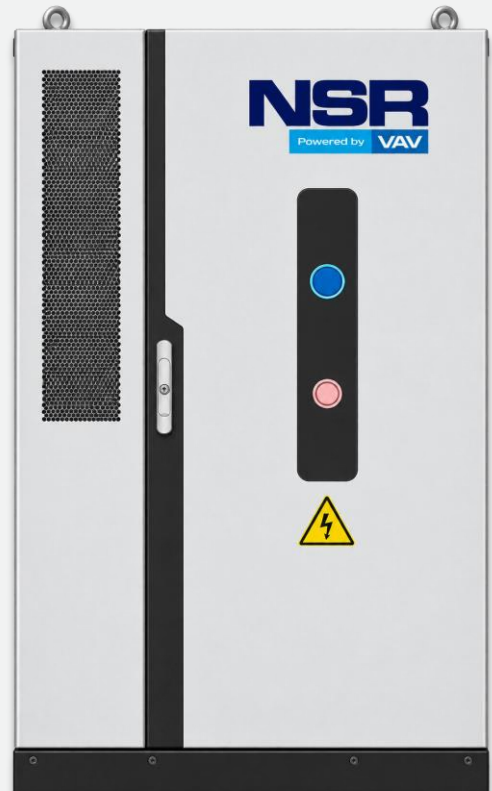
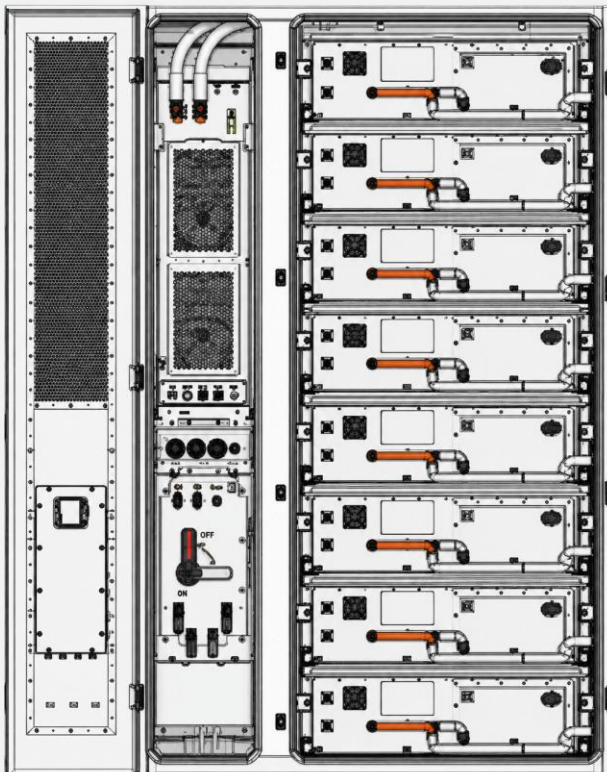
- Four-layer safety system, creating an energy storage system that ensures peace of mind.
- Pioneered the use of voiceprint monitoring and warning sensors, offering an early warning response 20 times faster than traditional sensors.

Efficiency:

- System efficiency optimization to enhance power generation and revenue over the entire lifecycle.
- Designed with a lifespan exceeding 20 years, reducing LCOS by 9%.

Economy:

- The system maximizes cost-effectiveness through real-time monitoring and intelligent O&M via the EMS Cloud Platform, ensuring safety and profitability.
- Advanced data analytics enhance power generation forecasts, battery diagnostics, and VPP dispatch strategies, driving economic efficiency and reducing overall costs.



Battery data

Cell Type	LFP
Rated Capacity	314Ah
Serial-Parallel Type	1P416S
Rated Capacity Per Pack	52.248kWh
Pack Number	8
System Rated Energy Capacity	418kWh
Rated DC Voltage	1331.2V
Rated DC Voltage Range	1164.8~1497.6V
Rated DC Current	157A

General data

Anticorrosion Rating	C4(C5 Optional)
Noise	≤70dB
Protection Degree	IP55
Cooling Method	Liquid Cooling/Heating
Fire Suppression System	Aerosol
Operating Temperature Range	-30°C~55°C(>45°C Derating)
Relative Humidity	5%~95%RH
Max.Working Altitude	2000m
Display	Web/LED
Com Interfaces	RS485/Ethernet
Dimensions(L*W*H)	1330*1370*2270mm
Weight	3700±50kg



IP55
Protection
Level



Maximize
System
Uptime



Safe &
Reliable



Tier 1 PCS-
Compatible



Flexible
Deployment



314Ah Cell
(CATL optional)

NSR-EV

EV Charging & Energy Storage System



The NSR-EV is an integrated EV charging and energy storage solution that enables dynamic capacity augmentation, reducing upfront costs and optimizing revenue for a shorter payback period. With a plug-and-play design, easy O&M, space-saving footprint, and un-interrupted power through blackouts via grid-independent storage, this system delivers reliable and efficient charging for any deployment.



Dynamic Capacity Augmentation



Lower Upfront Costs & Revenue Optimization



Shorter Payback Period



Easy O&M & Space-Saving



Charge Through Blackouts
Uninterrupted EV power with grid-independent storage



Plug & Play

Battery Data	
Cell Type	LFP
Rated Capacity	285Ah
Serial-Parallel Type	1P240S
Rated Capacity Per Pack	43.776kWh
Pack Number	5
System Rated Energy Capacity	218.88kWh
Rated DC Voltage	768V
Rated DC Voltage Range	672~864V
Rated DC Current	342A
AC Data	
Rated AC Power	105kW
Rated AC Voltage	400Vac
Rated Frequency	50/60Hz
Rated AC Current	152A
Max. AC Current	167A
Ac Wiring Type	3W/N+PE
Power Factor	-0.99~+0.99
General Data	
DOD	90%
Noise	≤75dB
Protection Degree	IP54
Cooling Method	Liquid Cooling/Heating
Fire Suppression System	Aerosol
Operating Temperature Range	-25 °C ~ 55°C (> 45°C Derating)
Relative Humidity	5% ~ 95%RH
Max. Working Altitude	2000m
Display	15-inch Touch Screen
Com Interfaces	RS485/ Ethernet
Dimensions (L*W*H)	2193*1344*1960mm
Weight	3200±50kg(Total Weight)
Charger Data	
Number of Charging Guns	2
Charging Power	DC Max 180kW
Charging Gun Line	300A, 5m, CCS2 (Booster/Optional)
Charging Voltage	300~1000V
Efficiency	≥96.5%
Charging Power Module	Air-Cooled
Communication Protocol	Support for OCPP 1.6J and Modbus
EMC	Class A (Industrial)

NSR-P 1300 1H

1.26MW/1.313MWh

C&I All-in-one ESS Container



This energy storage container is primarily deployed in C&I projects and offers multiple operation modes including Peak Shaving, Frequency Regulation, Dynamic Capacity Augmentation, and Electricity Market Trading. Equipped with CATL 285Ah long-life battery cells and a liquid cooling system, it ensures high efficiency, safety, and ease of maintenance for large-scale commercial applications.



CATL 285Ah Long-Life Battery Cells



Fully Certified Globally



Rapid FFR/FCR-D Responses
Compatible



Smart Management and Easier
O&M



Liquid Cooling System
Effectively reduce temperature
difference



Safe & Reliable
Multi-layered SMS

Battery Data

Cell Type	LFP
Rated Capacity	285Ah
Serial-Parallel Type	6P240S
Rated Capacity Per Pack	43.776kWh
Pack Number	6*5
System Rated Energy Capacity	1313.28kWh
Rated DC Voltage	768V
Rated DC Voltage Range	672~864V
Rated DC Current	1710A

AC Data

Rated AC Power	1260kW
Rated AC Voltage	400Vac
Rated Frequency	50/60Hz
Rated AC Current	1818A
Max. AC Current	2004A
Ac Wiring Type	3W/N+PE
Power Factor	-0.85 ~ 1

General Data

DOD	90%
Noise	≤80dB
Protection Degree	IP54
Cooling Method	Liquid Cooling/ Heating
Fire Suppression System	Aerosol
Operating Temperature Range	-30°C ~ 55°C (> 45°C Derating)
Relative Humidity	5% ~ 95%RH
Max. Working Altitude	2000m
Display	Web/ LED/ LCD
Com Interfaces	RS485/ Ethernet
Dimensions (L*W*H)	6058*2438*2591mm
Weight	18±0.5T

NSR-P 5000 2H

5.015MWh

Utility Battery Container



The NSR-P series energy storage containers are primarily deployed in utility-scale projects and offer multiple operation modes including Peak Shaving, Frequency Regulation, Dynamic Capacity Augmentation, and Electricity Market Trading. The NSR -P 5000 2H delivers 5MWh in a 20ft high container with liquid cooling, multi-layered fire protection, and full safety certifications including UL9540A and IEC62933.



Higher Energy Density

5MWh in one 20ft high container



Safe and Reliable

Multi-layered SMS with top-mounted explosion venting function



Eco-Friendly & Ultra-Quiet

Minimum average operating noise ≤ 75 dB



Certified to Safety Standards

UL9540A & IEC62933



Tier 1 PCS-Compatible

2H~8H Long-duration energy storage



IP55

Protection level

Battery Data

Cell Type	LFP
Rated Capacity	314Ah
Serial-Parallel Type	12P416S
Rated Capacity Per Pack	104.499kWh
Pack Number	12*4
System Rated Energy Capacity	5.015MWh
Rated DC Voltage	1331.2V
Rated DC Voltage Range	1164.8~1497.6V

General Data

DOD	95%
Noise	≤75dB
Protection Degree	IP55
Cooling Method	Liquid Cooling/ Heating
Fire Suppression System	Aerosol + Water Fire-Fighting + Explosion-Proof Fan (Combustible Gas)
Operating Temperature Range	-30°C ~ 50°C (> 45°C Derating)
Relative Humidity	0% ~ 95%RH
Max.Working Altitude	2000m
Display	Web
Com Interfaces	RS485/CAN/Ethernet
Dimensions (L*W*H)	6058*2438*2896mm
Weight	42 T approx
Standards&Certification	UL9540A (Pack & Cluster & Container) IEC 62477(Cluster & Container) IEC 62933(Containment) IEC 61000-6-2/4 IEC 62619 IEC 63056 Compliance of EU2023/1542

NSR-P 6200 2H

6.25MWh

Utility Battery Container



The NSR-P series energy storage containers are primarily deployed in utility-scale projects and offer multiple operation modes in clouding Peak Shaving, Frequency Regulation, Dynamic Capacity Augmentation, and Electricity Market Trading. The NSR-P 6200 2H features a 25% higher energy density with 6.25MWh in a 20ft high container, utilizing the latest 587Ah LFP cells for ultra-high capacity and system efficiency.



25% Higher Energy Density
6.25MWh in one 20ft high container



10% Lower Unit Transportation Costs & EPC Costs



587Ah LFP Cell Now in Official Use



Compliant with Various Safety Standards
UL9540A & IEC62933-5-2



Tier 1 PCS-Compatible
2H~8H Long-duration energy storage



Wide Temperature Range
Standard -30°C low-temperature operation



Eco-Friendly & Ultra-Quiet
Minimum average operating noise ≤75dB



IP55
Protection level

Battery Data

Cell Type	LFP 3.2V/587Ah
Capacity	6.250MWh
DC Voltage Range	1081.6V~1497.6V
System Configuration	416S8P
Thermal Management System	Smart Liquid Cooling/ Heating for Battery System
Fire Detection and Alarm	Fire Alarm Panel, Heat and Smoke Detection, Alarm Bell and Strobe
Fire Suppression Options	Aerosol-Based Suppression System, Flooded Fire Protection Systems
Noise @1m Distance	≤ 75dB
Pack-Level Fire Protection	Yes

General Data

Dimensions of Battery Compartment	6058*2438*2896mm
Weight of Battery Compartment	48t
Operating Temperature Range	-30°C ~ 55°C (>45°C Derating)
Relative Humidity	0%~100%
Ingress Protection Rating	IP55
Max. Altitude	4000m (>2000m Derating)
Communication Protocol	Modbus TCP/IEC104/IEC61850
Certification	IEC62619, IEC63056, IEC61000, IEC62477-1, IEC62933-5-2, UN3536, UN38.3, UL9540A

ENERGY PRO

LET'S POWER A BRIGHTER TOMORROW

CLEAN
ENERGY.
SMARTER
SOLUTIONS.
STRONGER
TOMORROW.

At Energy Pro, we deliver integrated, reliable, and intelligent energy solutions that help our customers achieve greater efficiency, stronger energy resilience, and a more sustainable future.

With over 30 years of international experience, we combine engineering expertise, advanced technologies, and global partnerships to support homes, businesses, industries, and large-scale energy projects.

Together, we can build a cleaner, smarter, and more sustainable tomorrow.

RELIABLE
SOLUTIONS.
REAL IMPACT.

OUR SOLUTIONS



Power
Generation



Energy
Storage



EV
Charging



Lighting



Backup
Power



Sustainable
Solutions



POWERING
A CLEANER
TOMORROW

www.energypro.hu



www.energypro.hu



info@energypro.hu



+361-200-04-99