



FARASIS ENERGY

Product Portfolio

A Global Pioneer in Batteries
Powering Clean and Sustainable
Energy



FARASIS ENERGY

ESS Portfolio





Energy Storage System

LFP PORTFOLIO

LFP

- LFP 314Ah CELL
- LFP 1P13S & 1P26S MODULE
- LFP 1P52S & 1P104S PACK
- LFP M2 MODULE
- LFP F150 C&I CABINET
- LFP RESIDENTIAL M1 MODULE
- LFP 5 MWh CONTAINER

SODIUM-ION PORTFOLIO:

Na-ion

- SODIUM 162Ah CELL
- SODIUM 1P13S & 1P26S MODULE
- SODIUM 1P52S & 1P104S PACK
- SODIUM M2 MODULE
- SODIUM F58 C&I CABINET
- SODIUM RESIDENTIAL M1 MODULE
- SODIUM 2.28 MWh CONTAINER



LFP PORTFOLIO





LFP PORTFOLIO

Complete range of LFP energy storage solutions for residential, commercial & utility applications.



Long lifecycle



Safe & Reliable



High Performance



Sustainable

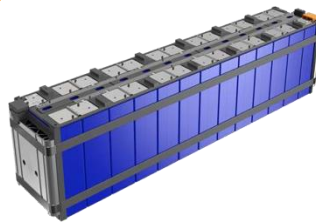
BUILT FOR A BETTER FUTURE

SOLUTIONS



LFP 314Ah CELL

High energy density cell for maximum performance



LFP 1P13S MODULE

Flexible module configuration for various system design



LFP 1P26S MODULE

Flexible module configuration for various system design



LFP 1P52S PACK

Scalable pack solutions for diverse application



LFP 1P104S PACK

Scalable pack solutions for diverse application



LFP M2 MODULE

Compact & efficient module for space constrained applications



LFP F150 C&I CABINET

All-in-one cabinet for C&I energy storage systems



LFP RESIDENTIAL M1 MODULE

Residential optimized module for home energy storage



LFP 5 MWh CONTAINER

Utility scale container solution for large scale energy storage

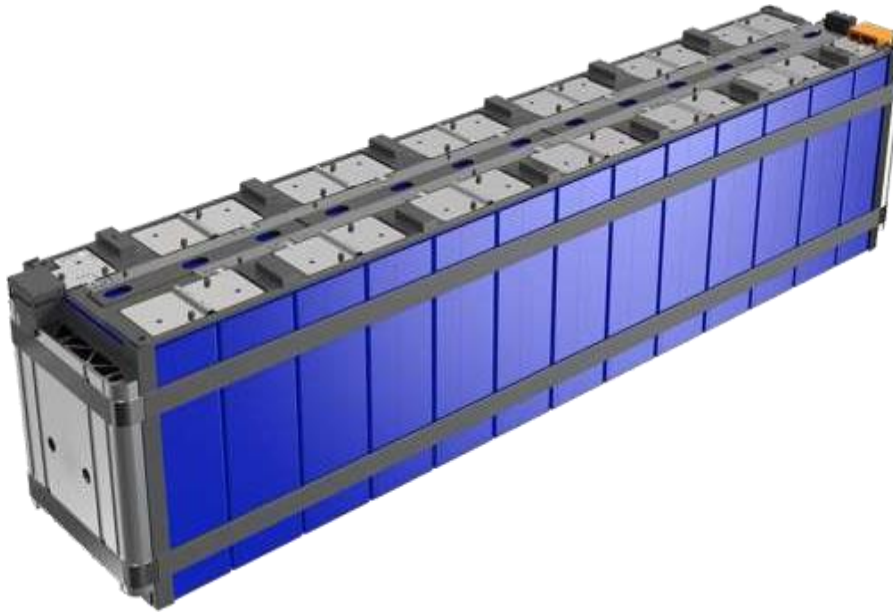


LFP 314Ah CELL

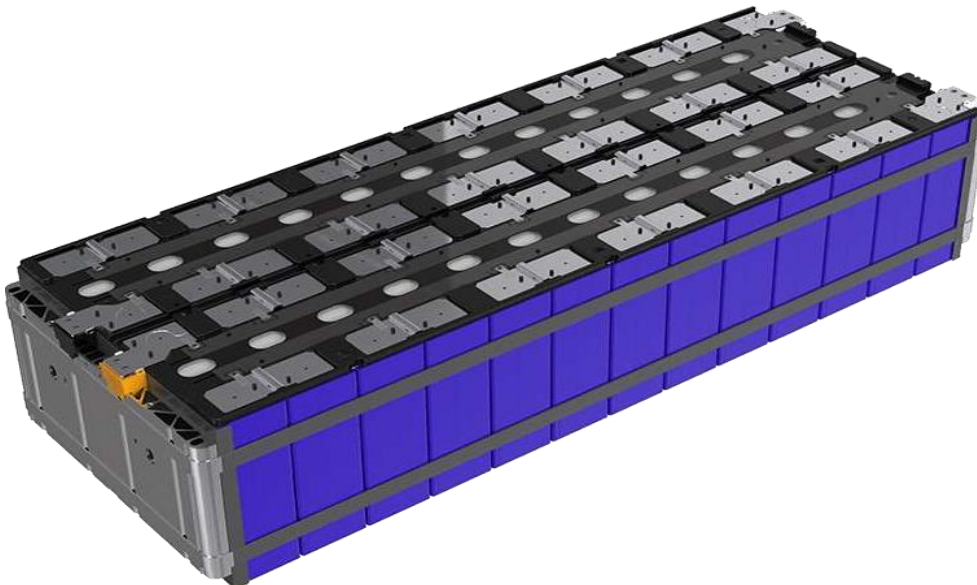


Parameter	Specification
GENERAL	
Typical Capacity	314 Ah
Guaranteed Initial Energy	1004.8 Wh
Rated Energy	703.36 Wh
Impedance (1KHz, 25±2°C)	0.17 ± 0.05 mΩ
Residual Capacity Loss	≤ 3% per month
Cycle Performance @70% Typical Capacity	≥ 8000 cycles
ELECTRICAL	
Operating Voltage (T > 0°C)	2.5 – 3.65 V
Operating Voltage (T ≤ 0°C)	2.0 – 3.65 V
TEMPERATURE RANGE	
Operating Temperature (Charging)	0°C ~ 60°C
Operating Temperature (Discharge)	-20°C ~ 60°C
MECHANICAL	
Cell Weight	5.6 ± 0.3 kg
Typical Dimensions (W × H × T)	173.8 ± 0.5 mm × 207.2 ± 0.5 mm × 71.5 ± 0.8 mm
ENVIRONMENTAL	
Altitude	≤ 5000 m

LFP MODULE



1P13S MODULE



1P26S MODULE

LFP 1P13S & 1P26S MODULE



Parameter	Specification	
GENERAL		
Battery Type	LFP – 3.2V / 314 Ah	
No. of Battery Cells	13	26
Configuration	1P13S	1P26S
Application Altitude	≤ 2,000 m	
Humidity	0–95% RH (Non-condensing)	
MECHANICAL		
Dimensions (L × W × H)	1029 × 183 × 218 mm	1029 × 360 × 218 mm
Weight	~75 kg	~150 kg
TEMPERATURE RANGE		
Operating	-20 ~ 55°C	
Storing (recommended)	-10~ 50°C	
ELECTRICAL		
Nominal Voltage Container	41.6 V	83.2V
Operating Voltage Container	36.4 ~ 46.8 V	72.8 ~ 93.6 V
Nominal Energy Container	13.06kWh	26.12kWh
Nominal Charge/Discharge Rate	0.5P / 0.5P	

LFP PACK



1P52S PACK



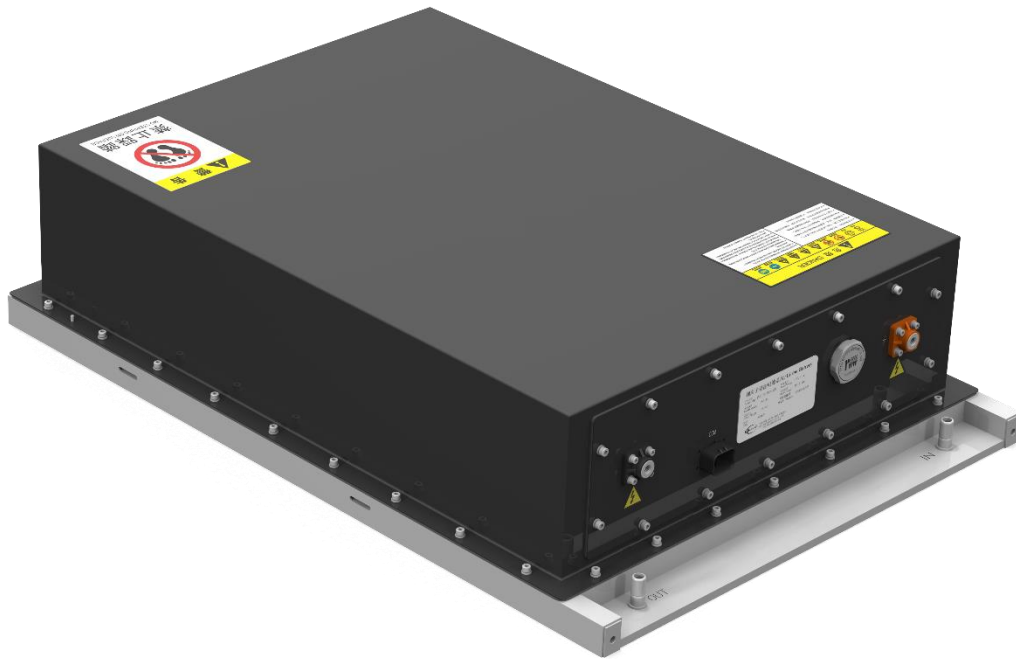
1P104S PACK

LFP 1P52S & 1P104S PACK



Parameter	Specification	
GENERAL		
Battery Type	LFP – 3.2V / 314 Ah	
No. of Battery Cells	52	104
Configuration	1P52S	1P104S
Cooling Method	Liquid Cooling	
BMS Communication	CAN, RS485, Ethernet	
Application Altitude	≤ 2,000 m	
Humidity	0–95% RH (Non-condensing)	
MECHANICAL		
Dimensions (L × W × H)	1140×790×245mm	2190×790×245mm
Weight	~323 kg	~667 kg
Protection Level	IP 67	
TEMPERATURE RANGE		
Operating	-20 ~ 55°C	
Storing	-10 ~ 50°C	
ELECTRICAL		
Nominal Voltage Container	166.4 V	332.8V
Operating Voltage Container	145.6 ~ 187.2 V	291.2 ~ 374.4 V
Nominal Energy Container	52.24kWh	104.49kWh
Nominal Charge/Discharge Rate	0.5P / 0.5P	0.5P / 0.5P
PRODUCT CERTIFICATIONS		
Certificates and Reports	GB/T 36276, IEC62619, UL1973, UL9540A	
Safe Transportation	UN 38.3	
ENVIRONMENTAL		
Compliance	RoHS, REACH, Cobalt free	

LFP M2 MODULE



FEATURES:

MODEL	M2 Module	NOMINAL CHARGE/ DISCHARGE POWER	0.5 P
CHEMISTRY	LFP-3.2 V	NOMINAL VOLTAGE (0.5P, @25 °C)	102.4 V
CAPACITY	180 Ah	WEIGHT	144 kg
CONFIGURATION	32S1P	TEMPERATURE RANGE	Operating: -20°C~50°C Storage: -10°C~50°C
MODULE ENERGY (0.5P, @25 °C)	18.43 kW	PROTECTION LEVEL	IP 67
DIMENSIONS (L*W*H)	890 x 624 x 218 mm	SERVICE LIFE	6000 cycles & > 10 years

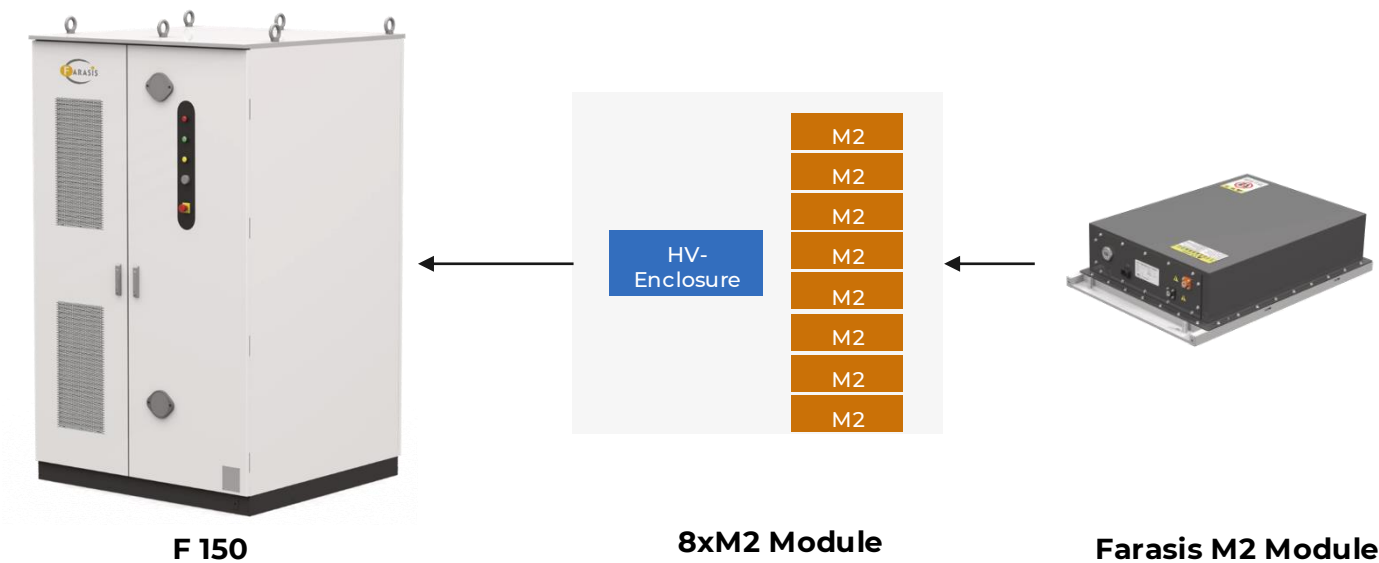
LFP F150 C&I CABINET



FEATURES:

Parameter	Specification
GENERAL	
Cell Type	LFP – 3.2V / 180Ah
No. of Battery Modules	8 x M2 LFP
Configuration	1P32S
Cooling Method	Liquid/Air Cooling
BMS Communication	CAN, RS485, Ethernet
Application Altitude	≤ 2,000 m
Humidity	0–95% RH (Non-condensing)
MECHANICAL	
Dimensions (L × W × H)	1,450 × 1,500 × 2,320 mm
Weight Cabinet	≤ 2650 kg
Protection Level	IP 54

LFP F150 C&I CABINET



FEATURES:

Parameter	Specification
TEMPERATURE RANGE	
Operating	-20 ~ 50°C
Storing (recommended)	-10 ~ 50°C
ELECTRICAL	
Nominal Voltage Cabinet	819.2 V
Operating Voltage Cabinet	716.8 ~ 921.6 V
Nominal Energy Cabinet	147.45 kWh
Nominal Charge/Discharge Rate	0.5P / 0.5P
Cycle Life	≥ 6000 cycles up to 70% SOH
PRODUCT CERTIFICATIONS	
Certificates and Reports	UL1973, UL9540A, IEC62619, GB/T36276, GB44420
Safe Transportation	UN 38.3
ENVIRONMENTAL	
Compliance	CE (LVD, EMC, RoHS, EU Battery Regulation (EU) 2023/1542)

LFP RESIDENTIAL M1 MODULE



FEATURES:

MODEL	PBF051180-A01 PBF051360-A01 PBF051540-A01	NOMINAL ENERGY	9.21 / 18.43 / 27.65 kWh
CHEMISTRY	LFP-3.2 V	NOMINAL CHARGE/ DISCHARGE POWER	4.6 / 8 / 10 kW
CAPACITY	180 Ah	WEIGHT	92 / 181 / 270 kg
CONFIGURATION	16S1P / 2Px16S1P / 3Px16S1P	PRODUCT CERTIFICATION	GB40165, IEC62619, UN38.3, UL1973, UL9540A
VOLTAGE RANGE	44.8V ~ 57.6V	PROTECTION LEVEL	IP 67
DIMENSIONS (L*W*H)	825 x 167 x 542/984/1426 mm	SERVICE LIFE	6000 cycles up to 70% SOH & > 10 years

LFP 5 MWh CONTAINER



Parameter	Specification
GENERAL	
Battery Type	LFP – 3.2V / 314 Ah
No. of Battery Cells	4992
Configuration	12P416S
Cooling Method	Liquid Cooling
BMS Communication	CAN, RS485, Ethernet
Application Altitude	≤ 2,000 m
Humidity	0–95% RH (Non-condensing)
MECHANICAL	
Dimensions (L × W × H)	6,058 × 2,438 × 2,896 mm
Weight Container (20 ft.)	~ 43 t
Protection Level	IP 54
TEMPERATURE RANGE	
Operating	-20 ~ 55°C
Storing (recommended)	-10 ~ 50°C
ELECTRICAL	
Nominal Voltage Container	1331.2 V
Operating Voltage Container	1164.8 ~ 1497.6 V
Nominal Energy Container	5.015 MWh
Nominal Charge/Discharge Rate	0.5P / 0.5P
Cycle Life	6000 (70% SOH, 90% DOD @25°C)
PRODUCT CERTIFICATIONS	
Certificates and Reports	GB/T 36276, IEC62619, UL1973, UL9540A
Safe Transportation	UN 38.3
ENVIRONMENTAL	
Compliance	RoHS, REACH, Cobalt free



SODIUM PORTFOLIO





SODIUM PORTFOLIO

Reliable, sustainable, Future- ready energy storage solution for residential, commercial & utility applications.



Enhanced Safety



Long Cycle life



Cost Effective



Sustainable

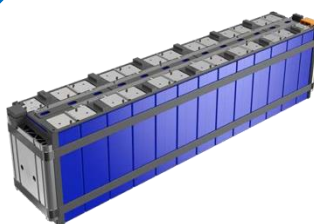
BUILT FOR A BETTER FUTURE

SOLUTIONS



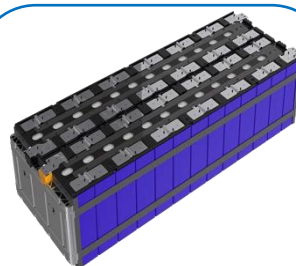
Na-ion 162 Ah CELL

High energy density cell for maximum performance



Na-ion 1P13S MODULE

Flexible module configuration for various system design



Na-ion 1P26S MODULE

Flexible module configuration for various system design



Na-ion 1P52S PACK

Scalable pack solutions for diverse application



Na-ion 1P104S PACK

Scalable pack solutions for diverse application



Na-ion M2 MODULE

Compact & efficient module for space constrained applications



Na-ion F58 C&I CABINET

All-in-one cabinet for C&I energy storage systems



Na-ion RESIDENTIAL M1 MODULE

Residential optimized module for home energy storage



Na-ion 2.28 MWh CONTAINER

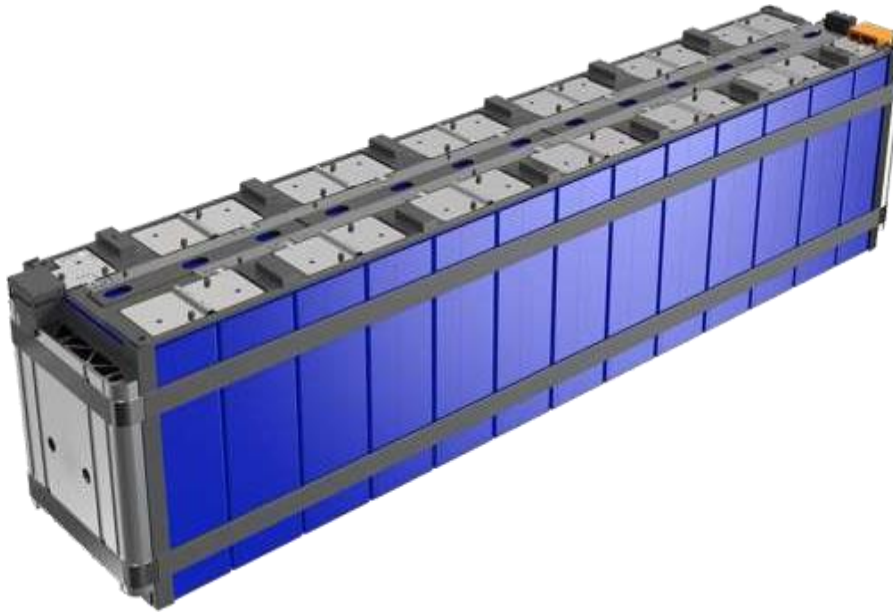
Utility scale container solution for large scale energy storage

SODIUM 162Ah CELL

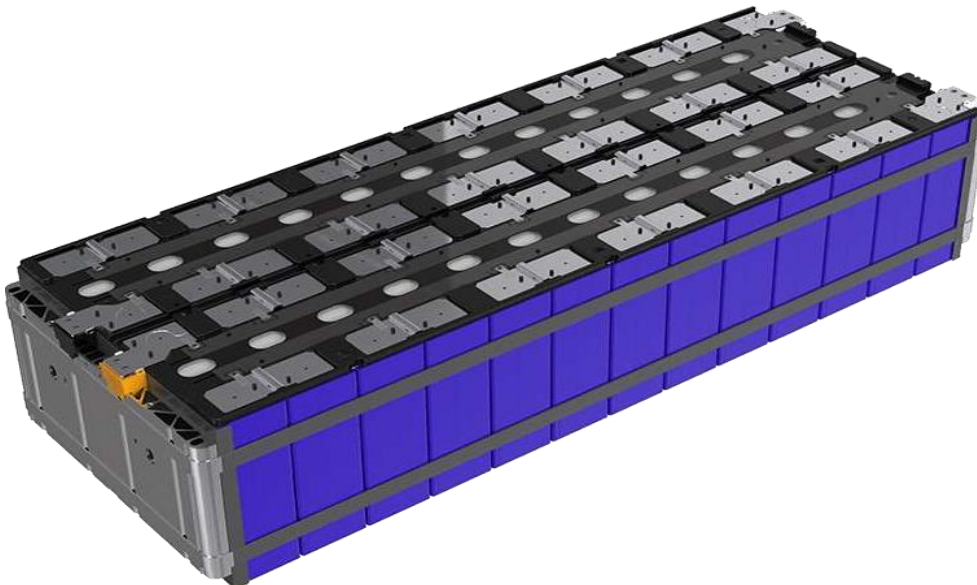


Parameter	Specification
GENERAL	
Chemistry	NFPP
Nominal Capacity	162 Ah
Nominal Energy	456.8 Wh
Energy Density	≥ 96.0 Wh/kg
Self-discharge	≤ 3% per month
ELECTRICAL	
Operating Voltage	1.5 – 3.3 V
Rated Voltage	2.82 V
Impedance (1 kHz)	≤ 0.23 mΩ
Cycle Performance	≥ 8000 cycles (@70% capacity)
TEMPERATURE RANGE	
Operating Temperature (Charge)	0 ~ 60°C
Operating Temperature (Discharge)	-40 ~ 60°C
MECHANICAL	
Cell Weight	4.55 ± 0.20 kg
Dimensions (L x W x H)	174.70 × 71.70 × 207.11 mm

SODUIM MODULE



1P13S MODULE



1P26S MODULE

SODIUM 1P13S & 1P26S MODULE



Parameter	Specification	
GENERAL		
Battery Type	NFPP – 2.82V / 162 Ah	
No. of Battery Cells	13	26
Configuration	1P13S	1P26S
Application Altitude	≤ 2,000 m	
Humidity	0–95% RH (Non-condensing)	
MECHANICAL		
Dimensions (L × W × H)	1029 × 183 × 218 mm	1029 × 360 × 218 mm
Weight	~62 kg	~120 kg
TEMPERATURE RANGE		
Operating	-30 ~ 55°C	
Storing (recommended)	-10 ~ 50°C	
ELECTRICAL		
Nominal Voltage Container	36.66 V	73.32 V
Operating Voltage Container	23.4 ~ 42.9 V	46.8 ~ 85.8 V
Nominal Energy Container	5.93kWh	11.87kWh
Nominal Charge/Discharge Rate	0.5P / 0.5P	0.5P / 0.5P

SODIUM PACK



1P52S PACK



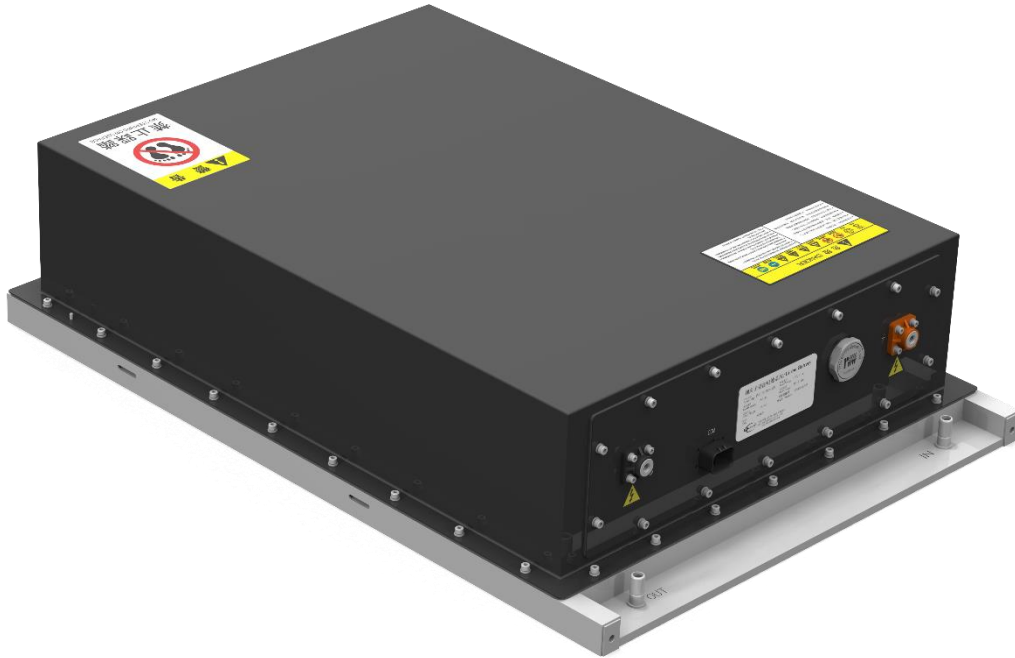
1P104S PACK

SODIUM 1P52S & 1P104S PACK



Parameter	Specification	
GENERAL		
Battery Type	NFPP – 2.82V / 162 Ah	
No. of Battery Cells	52	104
Configuration	1P52S	1P104S
Cooling Method	Liquid Cooling	
BMS Communication	CAN, RS485, Ethernet	
Application Altitude	≤ 2,000 m	
Humidity	0–95% RH (Non-condensing)	
MECHANICAL		
Dimensions (L × W × H)	1140×790×245mm	2190×790×245mm
Weight	~270 kg	~540 kg
Protection Level	IP 67	
TEMPERATURE RANGE		
Operating	-30 ~ 55°C	
Storing	-10~ 50°C	
ELECTRICAL		
Nominal Voltage Container	146.64 V	293.28V
Operating Voltage Container	93.6 ~ 171.6 V	187.2 ~ 343.2 V
Nominal Energy Container	23.75kWh	47.50kWh
Nominal Charge/ Discharge Rate	0.5P / 0.5P	
PRODUCT CERTIFICATIONS		
Certificates and Reports	GB/T 44265, IEC62619, UL1973, UL9540A	
Safe Transportation	UN 38.3	
ENVIRONMENTAL		
Compliance	RoHS, REACH, Cobalt free	

SODIUM M2 MODULE



FEATURES:

MODEL	M2 (Na-ion)	NOMINAL CHARGE/ DISCHARGE POWER	1 P
CHEMISTRY	NFPP – 2.85 V	NOMINAL VOLTAGE (1P, @25 °C)	91.2 V
CAPACITY	91 Ah	WEIGHT	122 kg
CONFIGURATION	32S1P	TEMPERATURE RANGE	Operating: -20°C~50°C Storage: -10°C~50°C
MODULE ENERGY (1P, @25 °C)	8.29 kWh	PROTECTION LEVEL	IP 67
DIMENSIONS (L*W*H)	890 x 624 x 218 mm	SERVICE LIFE	15000 cycles & > 10 years

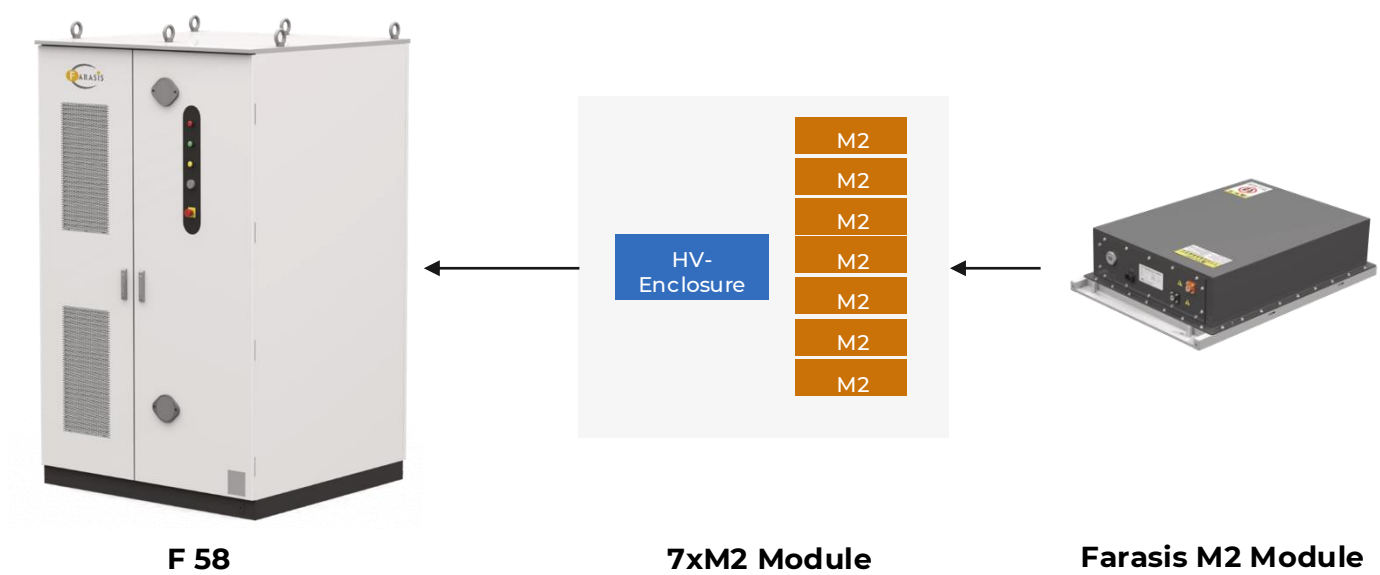
SODIUM F58 CABINET



FEATURES:

Parameter	Specification
GENERAL	
Cell Type	Na-ion- 2.85 V / 91 Ah
No. of Battery Modules	7 x M2 Na-ion
Configuration	1P224S
Cooling Method	Liquid/ Air Cooling
BMS Communication	CAN, RS485, Ethernet
Application Altitude	≤ 2,000 m
Humidity	0–95% RH (Non-condensing)
MECHANICAL	
Dimensions (L × W × H)	1,450 × 1,500 × 2,320 mm
Weight Cabinet	≤ 2350 kg
Protection Level	IP 54

SODIUM F58 CABINET



FEATURES:

Parameter	Specification
TEMPERATURE RANGE	
Operating	-20 ~ 50°C
Storing (recommended)	-10 ~ 50°C
ELECTRICAL	
Nominal Voltage Cabinet	638.4 V
Operating Voltage Cabinet	448 ~ 761.6 V
Nominal Energy Cabinet	58.09 kWh
Nominal Charge/Discharge Rate	1P / 1P
Cycle Life	≥ 15000 cycles up to 70% SOH
PRODUCT CERTIFICATIONS	
Certificates and Reports	GB/T 44265, IEC62619, UL1973, UL9540A
Safe Transportation	UN 38.3
ENVIRONMENTAL	
Compliance	CE (LVD, EMC, RoHS, EU Battery Regulation (EU) 2023/1542),

SODIUM M1 RESIDENTIAL MODULE



FEATURES:

Parameter	Specification
GENERAL	
Cell Type	NFPP – 2.85V / 91Ah
No. of Battery Modules	4~18
Configuration	1P16S*n (n=4~18)
Nominal Voltage	45.6*n V
Operating Voltage	28.8*n ~ 54.4*n V
Nominal Energy	4.14*n kWh
Cooling Method	Nature Cooling
BMS Communication	CAN, RS485, Ethernet
Application Altitude	≤ 2,000 m
Humidity	0-95% RH (Non-condensing)

SODIUM M1 RESIDENTIAL MODULE



FEATURES:

MODEL	PBS045091-A01 PBS045182-A01 PBS045273-A01	NOMINAL ENERGY	4.14 / 8.28 / 12.43 kWh
CHEMISTRY	NFPP – 2.85 V	CHARGE/DISCHARGE POWER	2 / 4 / 6 kW
CAPACITY	91 Ah	WEIGHT	82 / 162 / 242 kg
CONFIGURATION	16S1P / 2Px16S1P / 3Px16S1P	PRODUCT CERTIFICATION	GB40165, IEC62619, UN38.3, UL1973, UL9540A
VOLTAGE RANGE	28.8V ~ 54.4V	PROTECTION LEVEL	IP 67
DIMENSIONS (L*W*H)	825 x 167 x 542/984/1426 mm	SERVICE LIFE	> 10 years

Sodium 2.28 MWh Energy Storage Container

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SODIUM 2.28 MWh CONTAINER

Parameter	Specification
GENERAL	
Configuration	1P52S/1P104S
Battery Type	NFPP – 2.82V / 162 Ah
No. of Battery Cells	4992
Cooling Method	Liquid Cooling
BMS Communication	CAN, Ethernet
Application Altitude	≤ 2,000 m
Humidity	0–95% RH (Non-condensing)
MECHANICAL	
Dimensions (L × W × H)	6,058 × 2,438 × 2,896 mm
Weight Container (20 ft.)	~ 38 t
Protection Level	IP 54 (Pack IP 67)
TEMPERATURE RANGE	
Operating	-30 ~ 55°C
Storing	-10 ~ 50°C
ELECTRICAL	
Nominal Voltage Container	1173.12V
Operating Voltage Container	748.8~1372.8V
Nominal Energy Container	2.28 MWh
Nominal Charge/ Discharge Power & Rate	1140 kW and 0.5P / 0.5P rate
Cycle Life	15000 (70% SOH, 90% DOD @25°C)
PRODUCT CERTIFICATIONS	
Certificates and Reports	GB/T 44265, IEC62619, UL1973, UL9540A
Safe Transportation	UN 38.3
ENVIRONMENTAL	
Compliance	RoHS, REACH, Cobalt free



A Global Pioneer in Batteries Powering Clean and Sustainable Energy

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