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路易斯安那州 Louisiana

印尼 INDONESIA

菲律賓 PHILIPPINES



總部
HEADQUARTERS

台北市內湖區南京東路六段380號A5-9F
A5 9F, No. 380, Sec 6, Nanjing E. Rd.,
Neihu Dist., Taipei City, Taiwan
Tel +886-2-2712-2211 Fax +886-2-2712-8381



研發中心
R & D CENTER

新北市五股區五權三路24號2F
2F, No. 24, Wuquan 3rd Rd., Wugu Dist.,
New Taipei City, Taiwan
Tel +886-2-2299-3318 Fax +886-2-2299-3567

彰化模組廠
MODULE PLANT

彰化縣彰化市中山路三段359號
No. 359, Sec 3, Zhongshan Rd., Changhua City,
Changhua County, Taiwan
Tel +886-4-723-6101 Fax +886-4-725-6948

台塑尖端能源 彰濱電芯模組廠
BATTERY CELL & MODULE PLANT

彰化縣鹿港鎮山崙里崙安路28號
No. 28, Lunan Rd., Lukang Township,
Changhua County, Taiwan
Tel +886-4-753-5666 Fax +886-4-753-5226



新智能解決方案

FORMOSA SMART ENERGY
PRODUCTS AND SOLUTIONS



節能

Energy Conservation

儲能

Energy Storage

新能源

New Energy

循環
再利用

Recycling

台塑新智能
FORMOSA SMART ENERGY

從太陽能、風能，到潮汐能、地熱能，
再到生質能、氫能等，
新能源以其可再生和環保的特性，
被認為是我們走向永續發展的重要途徑。

隨著能源轉型加速，

新能源不僅能緩解全球暖化問題，
同時也是降低供應鏈風險的關鍵工具，
電池與儲能技術，
也將成為未來社會的重要基礎設施，
在AI快速發展的時代
為社會帶來更穩固、更安全的動力來源。

From solar, wind, tidal to geothermal, biomass, and
hydrogen energy, new energy sources, with their renewable
and environmentally friendly characteristics, are widely
recognized as a critical pathway toward sustainable
development.

As the global energy transition accelerates, new energy not
only helps mitigate global warming, but also serves as a key
tool for reducing supply chain risk. Battery and energy
storage technology will become essential infrastructure for
the society of tomorrow - providing a more stable and secure
source of power in the era of rapid AI advancement.

3,000 座
以上的建置實績
3,000+ Installations

全球超過
25 個建置地
25+ Deployment Locations
Worldwide

15 年
以上的經驗累積
15+ Years of Experience

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▶ 可靠技術
Trustworthy

▶ 組織系統
Systematic

▶ 簡單安全
Safe

▶ 智慧平衡
Intelligent



2008



台塑生醫成立「台塑鋰鐵材料科技」專注於氧化鋰鐵磷正極材料的研發、生產與銷售。

Formosa Biomedical Technology Corp. (FBC) established "Formosa Lithium Iron Oxide Corporation" to focus on the research, development, production and sales of lithium iron phosphate (LFP) cathode material.

2010



成立台塑生醫電池專案組，積極投入各式鋰鐵電池產品的開發與國內銷售。

Established the "Formosa Biomedical Battery Team" to continuously develop and sell a variety of LFP battery products in the domestic market.

2014



開始外銷到美國、中國、越南、菲律賓等地。國內外廠商陸續採用鋰鐵電池來汰換舊有的鉛酸電池。

Began exporting products to the United States, China, Vietnam, the Philippines, and other markets. Both local and foreign companies started adopting LFP batteries to replace their lead-acid batteries.

2018



推動鋰鐵電池模組100%自產。並取得UL、IEC、S-JET、UL JAPAN及UN38.3等指標性認證。

Started pushing for the production of LFP batteries and modules to be 100% in-house and obtained certifications given out by third-party safety laboratories in compliance with UL, UL Japan, IEC, S-JET, and UN38.3 standards.

2020



發展兆瓦級儲能系統(MW)並參與工研院主導之區域儲能示範驗證計劃，於彰濱設置1.5MW/1.5MWh儲能系統。

Developed MW-scale energy storage systems (ESS) and participated in the Regional Energy Storage Demonstration and Validation Project led by ITRI by deploying a 1.5 MW/1.5 MWh ESS at the Changhua Coastal Industrial Park.

FUTURE

2026



台塑尖端能源投入彰濱廠二期擴建，將再興建5GWh以上電芯廠及模組廠，強化台灣新能源國產供應鏈布局。

台塑新智能儲能系統取得全台首張CNS大型燃燒認證，車用電池獲R100.03 E-Mark車規認證，SAF原料藻油通過ISCC EU國際永續性與碳驗證；持續拓展國產電池及永續能源布局，推進技術與國際市場接軌。

Formosa AdvEnergy commenced Phase II of its Changhua facility expansion, with plans to construct an additional 5 GWh battery cell and module manufacturing facility to further strengthen the domestic energy supply chain.

FSE's ESS obtained Taiwan's first CNS Large-Scale Fire Test certification; automotive batteries received UNECE R100.03 E-Mark certification; and algae oil as a SAF feedstock obtained ISCC EU Certification. The company continues to expand its portfolio of domestically produced batteries and sustainable energy solutions, while advancing the integration of its technologies with international markets.

2025



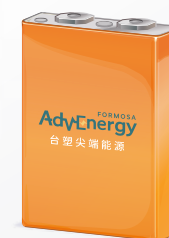
台塑尖端能源之電芯及模組陸續出貨儲能及電動車市場，更取得台灣EEWH黃金級綠建築認證，打造兼具智慧製造與永續價值的電池生產基地。

台塑新智能啟用全固態鋰電池試量產線，並攜手工研院成功開發乾式電極技術；同時完成建置全台首座鋰鐵電池回收示範線，推動從電池研發、製造到循環再利用的完整布局。

Formosa AdvEnergy's battery cells and modules started steadily supplying the energy storage and EV markets. The production facility has also received Taiwan's EEWH Gold-Level Green Building Certification.

In the same year, FSE commissioned a pilot production line for all-solid-state lithium batteries and, in collaboration with ITRI, successfully developed dry electrode technology. It also commissioned Taiwan's first pilot battery recycling line, establishing a comprehensive value chain spanning battery R&D, manufacturing, recycling, and reuse.

2024



台塑新智能科技公司在彰濱工業區分別設置電池模組廠及鋰鐵電芯廠(台塑尖端能源)，於2024年下半年完工量產(2.1GWh)。

FSE established an LFP battery module plant and an LFP battery cell plant (Formosa AdvEnergy) at the Changhua Coastal Industrial Park, with annual production capacity of 2.1 GWh.

The first phase of both plants was completed in the second half of 2024, marking the commencement of mass production.

2022



由台塑、南亞、台塑石化、台化、台塑生醫合資成立台塑新智能科技公司。於台塑生醫彰化觀光工廠建置台灣首座1.2MW/1.3MWh的sReg儲能案場。

Formosa Smart Energy Tech Corp. (FSE) was established as a joint venture between Formosa Plastics, Nan Ya Plastics, Formosa Petrochemical, Formosa Chemicals & Fibre, and Formosa Biomedical. FSE has since built Taiwan's first 1.2MW/1.3MWh sReg energy storage project at the FBC Changhua Plant.

Taiwan's Largest LFP Battery Cell & Module Plant

全台最大鋰鐵電芯基地 彰濱尖端電芯模組廠

台塑尖端能源為全台灣規模最大的鋰鐵電芯及模組廠，

更取得台灣EEWH黃金級綠建築認證；

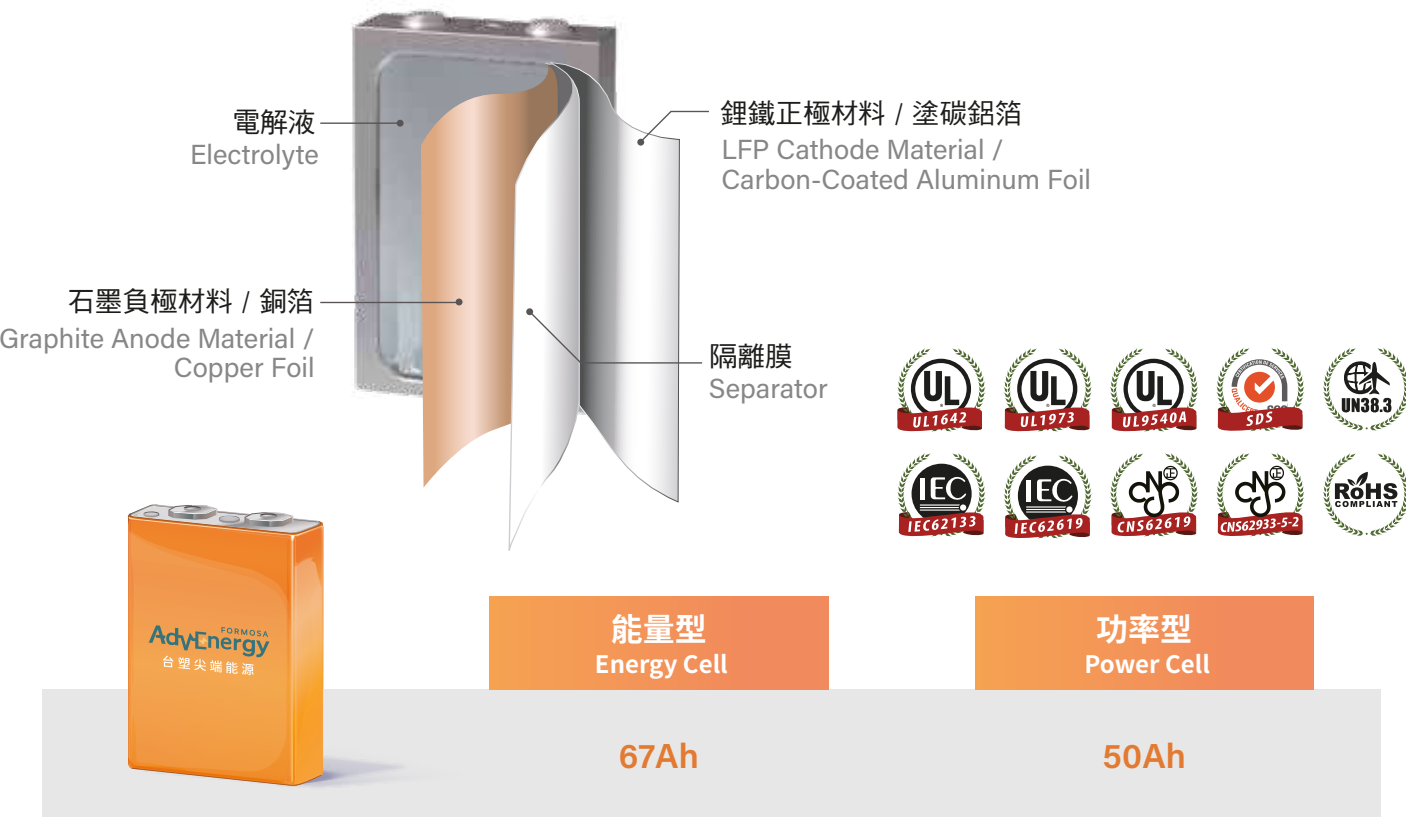
產品廣泛應用於電動車、工商業及家用儲能、UPS不斷電系統，

並通過UL、IEC、CNS 等安全認證標準，

實現智慧製造與永續發展並行的新能源布局，

打造穩定可靠的國產化能源供應鏈。

Formosa AdvEnergy is home to Taiwan's largest LFP battery cell and module manufacturing facility, and has obtained Taiwan's EEWH Gold-Level Green Building Certification. With safety certifications including UL, IEC, and CNS, our products form the foundation of our new energy portfolio and are widely used in EV, energy storage, as well as uninterruptible power supply (UPS) solutions.



LFP BATTERY PACK

電池模組



項 目 Item	UPS 不斷電系統應用			DC Charger 直流機系統應用
規格 Specification	24V50Ah	24V67Ah	90V50Ah	12V134Ah
型號 Model	LFP-24V050AH-B	LFP-24V067AH-B	LFP-90V050AH-B	LFP-12V134AH-B
電壓 DC Voltage	25.6 V	25.6 V	96 V	12.8 V
容量 Capacity	1.28 kWh	1.72 kWh	4.5 kWh	1.72 kWh
最大充電電流 MAX Charging Current	150 A (3C)	67 A (1C)	150 A (3C)	100 A (0.7C)
最大放電電流 MAX Discharging Current	400 A (8C)	100 A (1.5C)	400 A (8C)	130 A (0.97C)
配置 Configuration	8S1P	8S1P	30S1P	4S2P
尺寸 Dimension D*W*H	575*130*208 mm	575*130*208 mm	885*280*200 mm	351*221*184 mm
重量 Weight	17 kg	17 kg	64 kg	13.6 kg

● 詳細規格請參閱規格書 Please refer to the product datasheet for more details.

LFP BATTERY PACK

電池模組



ESS 儲能系統		
規格 Specification	48V67Ah	48V134Ah
型號 Model	LFP-48V067AH-A	LFP-48V134AH-A
電壓 DC Voltage	51.2 V	51.2 V
容量 Capacity	3.43 kWh	6.86 kWh
最大充電電流 MAX Charging Current	67 A (1C)	100 A (0.7C)
最大放電電流 MAX Discharging Current	100 A (1.5C)	100 A (0.7C)
配置 Configuration	16S1P	16S2P
尺寸 Dimension D*W*H	612*221*184 mm	950*235*181 mm
重量 Weight	30 kg	55 kg

● 詳細規格請參閱規格書 Please refer to the product datasheet for more details.

長達十五年以上的變革

Over 15 Years of Transformation

依循台塑企業「勤勞樸實，止於至善」的共同工作精神，所有電池模組都經過標準組裝，以及兩次以上的充放電流程檢測、配對，提供客戶完美的電池系統。

Guided by Formosa Plastics Group's core values of "Diligence, Perseverance, Frugality and Trustworthiness, Striving for Excellence," all battery modules undergo standardized assembly, at least two charge-discharge cycles for testing and verification, and rigorous cell matching to ensure high-quality and reliable battery systems for our customers.





COMMERCIAL & INDUSTRIAL ENERGY STORAGE SYSTEM

工商儲能系統

電芯一致性 CELL CONSISTENCY

全系統動態智慧平衡 Battery Cell Balancing System

可以修正電芯製作過程中的細微電氣差異，並補償充電直流阻抗的時間衰變，除了延長電池系統安全使用壽命，並可合理擴大電池可操作範圍，提升電池系統穩定性。

With our battery cell balancing system, subtle electrical differences introduced during the cell manufacturing process can be corrected, and the time decay exacerbated by DC internal resistance can be offset. Not only does our balancing system extend the safe operating lifespan of the battery system, it also helps expand the operational range and enhances the stability of the battery system.



分層架構管理
Hierarchical BMS



智慧平衡系統
Smart Balancing System



子系統互相備援
Redundant Subsystems



雙重保護
Double Protection

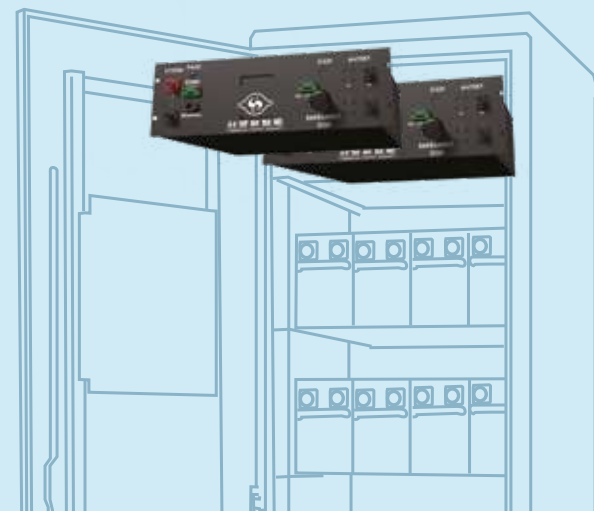
BMS功能 BMS FEATURES

保護板架構符合IEC/UL60730-1認證

Our battery management system passes the IEC/UL60730-1 certification standard

擁有智慧平衡演算、二階隔離控制系統、子系統可相互備援，自動復歸、多重隔離高安全電源與遠端控制系統，可進行高精度非接觸的安時量測計算。

Programmed with smart balancing algorithms and equipped with a two-stage isolation control system, redundant subsystems, a self-reset system, and a remote control system, our BMS allows for high-precision and contact-less ampere-hour measurement calculations.



COMMERCIAL & INDUSTRIAL ENERGY STORAGE SYSTEM

工商儲能系統



Cabinet 機櫃

UPS 電池系統
半導體廠備援專用
UPS System for
Semiconductor Factory Backup



Cabinet 機櫃

UPS 電池系統
數據中心備援專用
UPS System for
Data Center Backup

項目 Item	廠辦備援專用 Factory Backup		數據中心備援專用 Data Center	直流機應用系統 DC Charger
規格 Specification	480V50Ah	480V67Ah	540V100Ah	108V134Ah
型號 Model	US050-160MMSB	US067-160AMS1	US050-180QMF7	DC134-036BPS1
電壓 DC Voltage	512 V	512 V	576 V	115.2 V
容量 Capacity	25.6 kWh	34.3 kWh	57.6 kWh	15.4 kWh
最大充電電流 MAX Charging Current	150 A (3C)	67 A (1C)	150 A (3C)	100 A (0.7C)
最大放電電流 MAX Discharging Current	400 A (8C)	100 A (1.5C)	400 A (8C)	130 A (0.97C)
配置 Configuration	10S2P	10S2P	6S2P	9S1P
尺寸 Dimension D*W*H	800*600*2,100 mm		946*668* 2,400 mm	800*650*1,600 mm
重量 Weight	563 kg	563 kg	1,200 kg	278 kg

● 詳細規格請參閱規格書 Please refer to the product datasheet for more details.



消防設備
Fire Suppression System

控制箱
Control Box

空調
Air Conditioner



Cabinet 機櫃

廠辦/商用 戶外型儲能系統
Outdoor Commercial & Industrial (C&I) Energy Storage System



Rack 機櫃
768V134Ah



Rack 機櫃
1056V134Ah



戶外型儲能系統 Outdoor ESS			
規格 Specification	768V134Ah	1056V134Ah	768V268Ah
型號 Model	ES134-256CMF2α	ES134 -352GMF1	ES134-256CMF2β
電壓 DC Voltage	819.2 V	1,126.4 V	819.2 V
容量 Capacity	109.77 kWh	150.93 kWh	219.4 kWh
最大充電電流 MAX Charging Current	100 A (0.7C)	100 A (0.7C)	200 A (0.7C)
最大放電電流 MAX Discharging Current	100 A (0.7C)	100 A (0.7C)	200 A (0.7C)
配置 Configuration	16S1P	22S1P	16S2P
配備 Equipment	空調系統、消防系統、控制箱 Air conditioning System, Fire Suppression Sytem, Control Box		空調系統、消防系統、 控制箱、功率調節器 Air conditioning System, Fire Suppression Sytem, Control Box, PCS
尺寸 Dimension D*W*H	1,000*1,250*2,450 mm	1,000*1,250*2,450 mm	1,361*1,435*2,450 mm
重量 Weight	1,325 kg	1,700 kg	3,500 kg

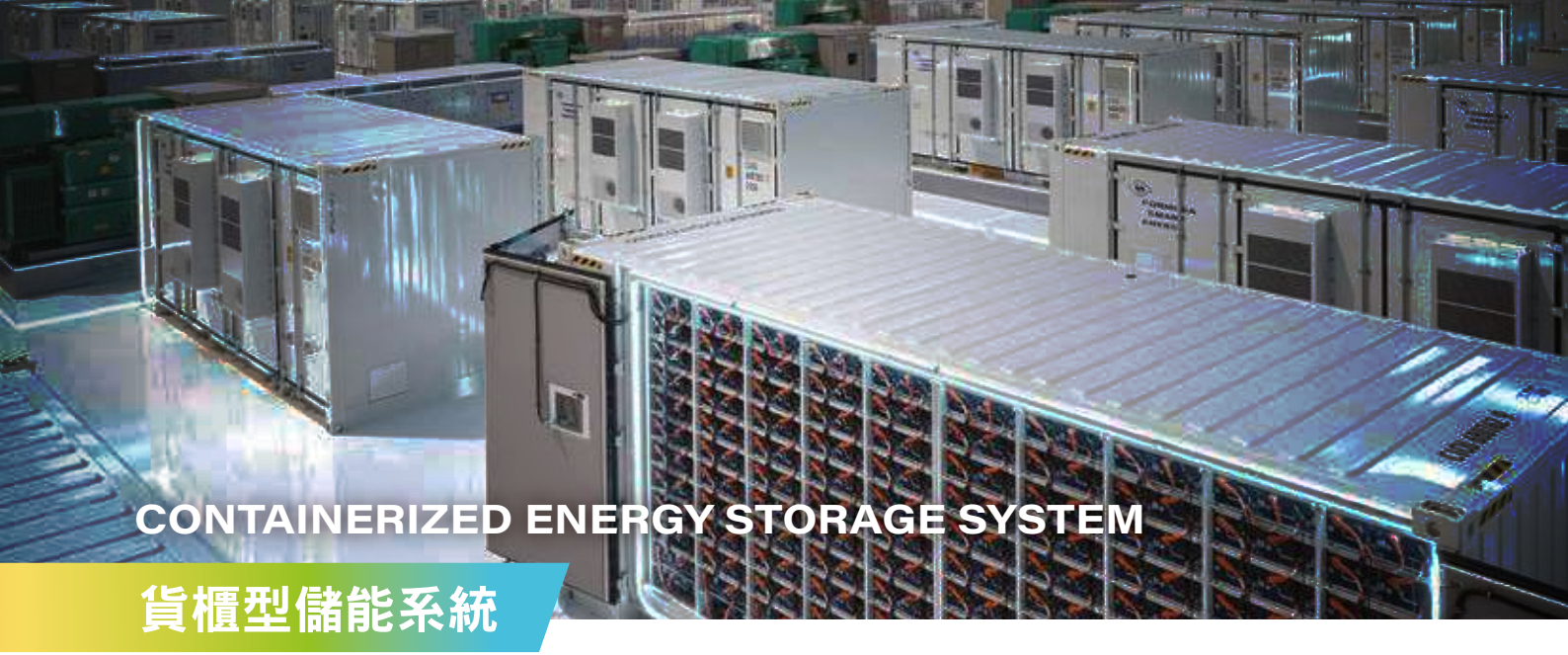
● 詳細規格請參閱規格書 Please refer to the product datasheet for more details.





ESS 儲能電池系統			
規格 Specification	768V67Ah	768V134Ah	1056V134Ah
型號 Model	BR108-256AMF	ES134-256CMF2	ES134-352GMF1
電壓 DC Voltage	819.2 V	819.2 V	1,126.4 V
容量 Capacity	54.88 kWh	109.77 kWh	150.93 kWh
最大充電電流 MAX Charging Current	67 A (1C)	100 A (0.7C)	100 A (0.7C)
最大放電電流 MAX Discharging Current	100 A (1.5C)	100 A (0.7C)	100 A (0.7C)
配置 Configuration	16S1P	16S1P	22S1P
尺寸 Dimension D*W*H	667*545*2,001 mm	985*560*2,001 mm	998*554*2,379 mm
重量 Weight	654 kg	1,140 kg	1,470 kg

● 詳細規格請參閱規格書 Please refer to the product datasheet for more details.



CONTAINERIZED ENERGY STORAGE SYSTEM

貨櫃型儲能系統

20呎貨櫃 20'CONTAINER TEU



氣冷 Air Cooling



- 使用磷酸鋰鐵電池
Utilizes LFP batteries
- 防護等級：IP54
Ingress Protection Rating：IP54
- 抗腐蝕防鏽等級:ISO 12944 C5
Corrosion Protection Class:
ISO 12944 C5

液冷 Liquid Cooling



CONTAINERIZED ENERGY STORAGE SYSTEM 貨櫃型儲能系統

ESS 貨櫃型 儲能系統		
型號 Model	FESS 20-134C	FESS 20-134D
標稱容量 Nominal Capacity	3.01 MWh	4.61 MWh
標稱電壓 Nominal DC Voltage	1,126.4 V	1,228.8 V
直流工作電壓 DC Voltage Operating Range	1,020~1,232 Vdc	1,113~1,344 Vdc
最大充電電流 Max. Charging Current	1,000 A	1,250 A
最大放電電流 Max. Discharging Current	1,000 A	1,250 A
配置 Configuration	1P22S*20 Rack	2P6S*14 Rack
尺寸 Dimension D*W*H	6,058*2,438*2,896 mm	6,058*2,438*2,896 mm
重量 Weight	38 ton	43 ton
型態 Type	氣冷 Air Cooling	液冷 Liquid Cooling

配備 Equipment	直流盤 DC Busbar	偵溫感測器 Temperature Sensors	漏電偵測器 Residual Current Device
	監控盤 HMI	氣體品質偵測器 Gas Detectors	雷擊突破吸收器 Surge Arrester
	空調系統 Air Cooling System	不斷電系統 UPS System	積水感測器 Liquid Alarm Sensors
	消防系統 Fire Protection System	高壓保險器 High-Voltage Fuse	大電流直流隔開關 High Current DC Disconnecter
	煙偵感測器 Smoke Detectors	*因應案場實際應用配置 Based On The Actual Application Requirements Of The Project.	

● 詳細規格請參閱規格書 Please refer to the product datasheet for more details.





RESIDENTIAL ESS

家用儲能系統

此為示意圖，實際以實物為準

標準儲能
電池模組
STANDARD
MODULE

電池保固
十年
10-YEAR
WARRANTY

高達3,600次
循環壽命
OVER 3,600
CYCLE LIFE

智慧平衡
SMART
BALANCING

自動斷電
保護
AUTOMATIC
POWER-OFF
PROTECTION

防火材質
FIREPROOF
MATERIALS

智慧新選擇 點亮我的家

SMARTER CHOICE FOR
POWERING YOUR HOME



RESIDENTIAL ESS

家用儲能系統



家用儲能系統 Residential ESS

HB134-016EMF1 HB268-016EME1

額定容量 NOMINAL CAPACITY	134 Ah	268 Ah
額定電壓 NOMINAL VOLTAGE	51.2 V	51.2 V
能量 ENERGY	6.86 kWh	13.72 kWh
尺寸 DIMENSION L*W*H	580*300*608 mm	580*300*1,058 mm
重量 WEIGHT	77 kg	144 kg

● 詳細規格請參閱規格書 Please refer to the product datasheet for more details.



混合型逆變器 Hybrid PCS

FSE HESS 6KW

功率 POWER	6 kW
標稱輸出電流 NOMINAL DISCHARGE CURRENT	每相 25 A 25 A/PHASE
標稱輸出電壓 NOMINAL DISCHARGE VOLTAGE	120/208/240 Vac
標稱直流電壓 NOMINAL DISCHARGE VOLTAGE	48 Vdc
最大充電電流 MAXIMUM CHARGING CURRENT	120 A
防護等級 INGRESS PROTECTION RATING	IP65
操作溫度範圍 OPERATING TEMPERATURE RANGE	-20~60 °C
尺寸 DIMENSION H*W*D	700*515*215.5 mm
重量 WEIGHT	41 kg

可於市電中斷緊急供電
Can be used as
an emergency power supply

可搭配太陽能系統使用
Can be paired with
a photovoltaic (PV) system

可積木式堆疊選用容量
Can be stacked to
increase energy storage capacity

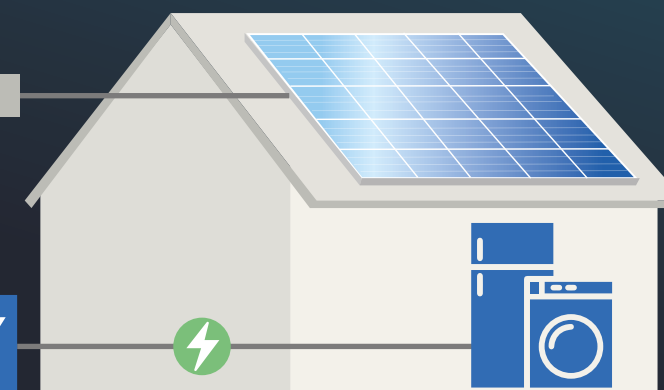
配合時間電價優化電費
Can be used strategically to
decrease electricity costs

可透過清潔能源充放電，無須燃料，
安全穩定，邁向淨零永續環境。

The residential energy storage system can be charged
with clean energy, which helps us move towards a
Net-Zero sustainable future safely and reliably.



RESIDENTIAL ENERGY
STORAGE SYSTEM





EV BATTERY SYSTEM

車用動力電池系統

高安全性
高能量密度
動力電池系統

High Safety & High Energy
Density Battery System



CNS16160

經濟部標準檢驗局
電動車輛用電池及電池系
統實施自願性產品驗證
The Voluntary Product Certification
(VPC) for batteries and battery
systems used in EVs implemented
by the BSMI of the Ministry of
Economic Affairs.



IEC62133
IEC62620

電動道路車輛用鋰離子
電池和電池的安全要求
Safety requirements for
lithium-ion cells and
batteries used in electric
road vehicles.



UL1973
UL2580

電動汽車電池 (模組)
的安全性標準
Safety standards for
electric vehicle batteries
(modules).



UN38.3

聯合國危險貨物運輸
《貨物運輸條件》
UN safety standard for
the transport of
lithium-ion batteries.



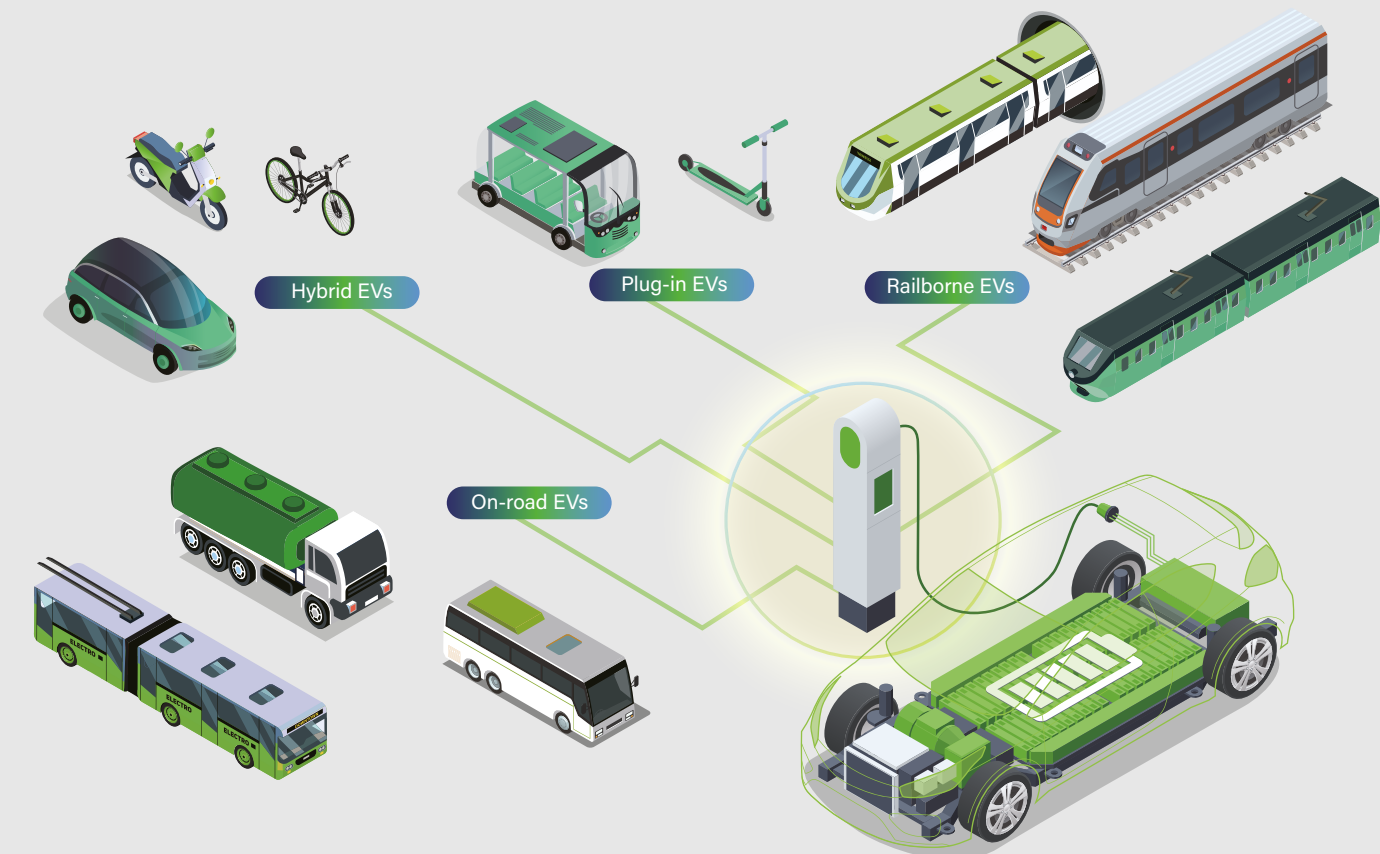
ECE R100.03

歐盟車用動力電池
安全性標準
EU safety standard
for automotive power
batteries.



E13

聯合國歐洲經濟委員會頒布
的國際車輛型式與零組件核
准法規驗證合格證書
UNECE International Vehicle
and Component Type
Approval Certificate



EV BATTERY SYSTEM

車用動力電池系統

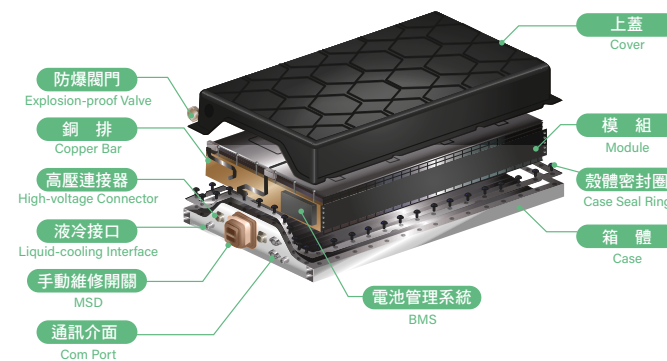
電動巴士動力電池系統

Electric Bus Battery System

台塑新智能自主開發動力電池系統，
兼具穩定性能與可靠品質。產品已成功
導入台灣電動巴士，展現國產動力電池
於大眾運輸領域的實際應用成果。



FSE independently developed its own power battery systems,
combining stable performance with reliable quality.
These products have been successfully deployed in electric buses in
Taiwan, demonstrating the practical application of domestically
developed technology in public transportation.



配置 CONFIGURATION	3P48S
標稱電量 NOMINAL ENERGY	30.87 kWh
能量密度 ENERGY DENSITY	≥134 Wh/kg
標稱電壓 NOMINAL VOLTAGE	153.6 V
工作溫度 OPERATIONAL TEMPERATURE	Charging: 0~55 °C Discharging: -30~60 °C
熱管理 THERMAL MANAGEMENT	Liquid Cooling
防護等級 INGRESS PROTECTION RATING	IP67
尺寸 DIMENSION D*W*H	1,240*710*192 mm
重量 WEIGHT	230 kg

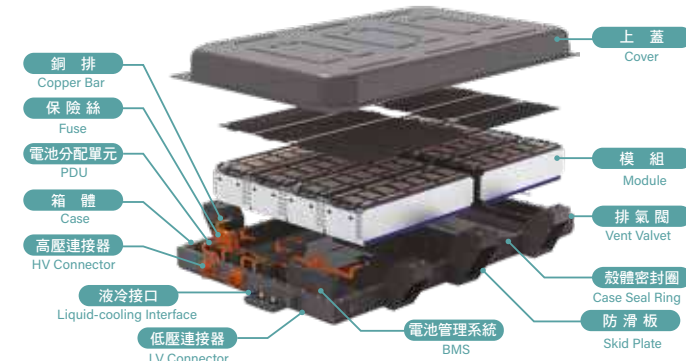
電動物流車動力電池系統

Electric Commercial Vehicle Battery System

台塑新智能針對商用車密集運行的需求，
與國內車廠合作，將自主開發的動力電池
系統導入新開發電動物流車型，拓展電動
化於物流運輸領域的應用。



To meet the intensive operating demands of commercial vehicles,
Formosa Smart Energy has partnered with domestic automakers to
integrate its independently developed power battery systems into
newly developed electric logistics vehicles, expanding the application
of electrification in logistics and transportation.



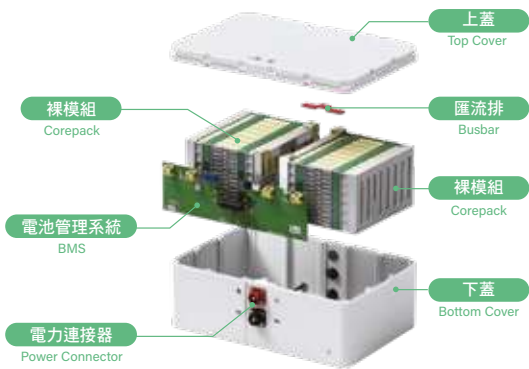
配置 CONFIGURATION	2P104S
標稱電量 NOMINAL ENERGY	44.5 kWh
能量密度 ENERGY DENSITY	>123 Wh/kg
標稱電壓 NOMINAL VOLTAGE	332.8 V
工作溫度 OPERATIONAL TEMPERATURE	Charging: 0~55 °C Discharging: -30~60 °C
熱管理 THERMAL MANAGEMENT	Liquid Cooling
防護等級 INGRESS PROTECTION RATING	IP67
尺寸 DIMENSION D*W*H	1,534*1,226*211 mm
重量 WEIGHT	360 kg

四足機器人電池系統

Quadruped Robot Battery System

台塑新智能自主開發四足機器人電池系統，具備長續航、高功率輸出及智慧BMS管理等特性，滿足智慧自動化運行需求，提供穩定可靠的動力解決方案。

FSE has independently developed a battery system for quadruped robots, featuring long operating endurance, high power output, and intelligent BMS management. The system meets the demands of smart automated operations and provides a stable and reliable power solution.

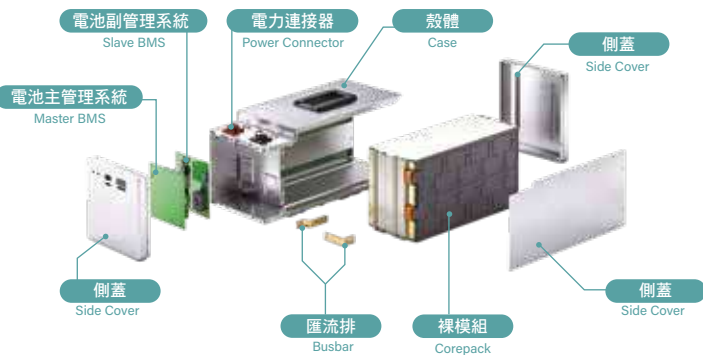


機櫃式電池系統

Rack-Mounted Battery System

台塑新智能與國內AGV（自動導引車）及AMR（自主運輸機器人）系統廠合作開發動力電池系統，可應用於多種移動載具，協助取代傳統燃油設備及人工作業，提升能源效率與使用彈性。

FSE has partnered with domestic Automated Guided Vehicle (AGV) and Autonomous Mobile Robot (AMR) system providers to develop power battery systems. These systems can be applied to various mobile platforms, helping replace conventional fuel-powered equipment and manual operations while improving energy efficiency and operational flexibility.



	
規格 SPECIFICATION	51.2V27Ah
配置 CONFIGURATION	1P16S
標準電量 NOMINAL ENERGY	1.38 kWh
能量密度 ENERGY DENSITY	≥140 Wh/kg
標準電壓 NOMINAL VOLTAGE	51.2 V
工作溫度 OPERATIONAL TEMPERATURE	Charging:3~40 °C Discharging:0~40 °C
尺寸 DIMENSION D*W*H	350*265*133 mm
重量 WEIGHT	16 kg
熱管理 THERMAL MANAGEMENT	自然散熱 Natural cooling
IP等級 INGRESS PROTECTION RATING	IP67
通訊協議 COMMUNICATION PROTOCOL	CAN2.0A

	
規格 SPECIFICATION	48V67Ah
配置 CONFIGURATION	1P15S
標準電量 NOMINAL ENERGY	3.21 kWh
能量密度 ENERGY DENSITY	≥175 Wh/kg
標準電壓 NOMINAL VOLTAGE	48 V
工作溫度 OPERATIONAL TEMPERATURE	Charging:3~40 °C Discharging:0~40 °C
尺寸 DIMENSION D*W*H	504*183*236 mm
重量 WEIGHT	30.5 kg
熱管理 THERMAL MANAGEMENT	自然散熱 Natural cooling
IP等級 INGRESS PROTECTION RATING	IP20
通訊協議 COMMUNICATION PROTOCOL	RS485
安規 CERTIFICATION	EMC, UN38.3, IEC60730, IEC62619



TUBULAR PHOTOBIOREACTORS

微藻管道式光生物反應器



管道式設計
Pipeline Design

半自動清洗
Semi-Automatic
Cleaning

佔用空間少
Space-Efficient

可控制環境
Controlled
Environment

固碳效率高
High Carbon-Fixation
Efficiency



澄源官網
The official website of
CH Algae

Tel: 06-2613366 #614
Mail: nghaochen@fpg.com.tw

型號 Model	50L管道式設備 50L Tubular System	150L管道式設備 150L Tubular System	600L管道式設備 600L Tubular System	5,000L管道式設備 5,000L Tubular System
管柱數 NUMBER OF TUBES	10	24	64	352
管道總容量 VOLUME OF TUBES	30 L	70 L	400 L	4,000 L
緩衝槽 TANK	20 L	80 L	200 L	1,000 L
佔地面積 LAND AREA L*W*H	200*100*120 cm	220*100*170 cm	850*150*200 cm	2,500*150*250 cm
可控制溫度範圍 OPERATING TEMP.	15~40 °C	15~40 °C	15~40 °C	15~40 °C
光源 LIGHT SOURCE	RGB	RGB	RGB	RGB

FORMOSA SMART POWER

台塑綠電

讓每一度綠電，
成為企業邁向永續競爭力的起點！

台塑集團能源實力 × 專業綠電服務

Formosa Plastics Group's Energy Expertise × Professional Green Energy Services

陪伴企業邁向 **RE100** 與淨零未來

Supporting Businesses on Their Journey Toward RE100 and a Net-Zero Future

面對全球淨零排放趨勢、供應鏈減碳要求及 ESG 永續發展浪潮，
再生能源已成為企業提升競爭力的重要關鍵。

台塑綠電結合台塑集團資源與台塑新智能能源布局，整合再生能源、
儲能及能源管理專業，提供企業穩定、合法且具規模的綠電轉供服務，
協助客戶提升再生能源使用比例，落實永續經營目標。



科技業



製造業



建築業



醫療機構



學校機構



公部門



綠色能源 × 永續未來 × 企業價值

GREEN ENERGY TRADING

綠電交易



台塑集團能源體系支持

Backed by Formosa Plastics Group's Energy Ecosystem

結合台塑集團能源產業鏈資源，打造完整綠色能源服務平台。



綠電 × 儲能一站式整合服務

One-Stop Integration of Green Power and Energy Storage

從綠電採購、RE 比例規劃到儲能應用，提供全方位解決方案。



穩定且具規模的綠電供應能力

Stable and Scalable Green Power Supply

整合多元再生能源資源，提供企業長期穩定的綠電來源。



客製化 RE100 與 ESG 規劃

Customized RE100 and ESG Planning

依據企業用電需求與永續目標，量身打造最適綠電方案。



專業團隊全程協助

End-to-End Support from a Professional Team

從需求評估、方案規劃到轉供執行，提供完整服務與技術支援。

台塑綠電服務內容

- ✓ 綠電轉供服務
- ✓ RE100 規劃服務
- ✓ ESG 永續發展諮詢
- ✓ 儲能整合應用
- ✓ 能源管理規劃

免費綠電評估服務

提供用電分析、RE 比例試算、綠電採購建議及減碳規劃，
協助企業以最合適的方式導入綠電，提升永續競爭力。



用電分析
RE Ratio Analysis



RE 比例試算
Green Power
Procurement



綠電採購建議
Recommendations



減碳規劃
Carbon Reduction
Planning

台塑綠電專業團隊

(02) 2712-2211 #8716
linda_deng@fpg.com.tw