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惠州 Huizhou
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新智能解決方案

FORMOSA SMART ENERGY
SOLUTIONS AND PRODUCTS

FORMOSA
SMART
ENERGY

節能
Energy Conservation

儲能
Energy Storage

新能源
New Energy

循環
Recycling



台塑新智能科技股份有限公司
FORMOSA SMART ENERGY TECH CORP.

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MODULE PLANT

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BATTERY CELL & MODULE PLANT

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台塑新智能
FORMOSA SMART ENERGY

從太陽能、風能，到潮汐能、地熱能，
再到生物能、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。

這些新能源不僅可以幫助我們降低對傳統能源的依賴，
從而緩解環境暖化問題，
同時也有可能開創出一種新的經濟發展模式，
為未來的社會發展提供持久的動力。

Due to its climate-friendly nature, new energy generated from renewable natural resources such as wind and sunlight is considered the path towards a more sustainable future.

Renewable energy not only helps reduce our reliance on traditional energy generated from non-renewable resources such as coal, oil and natural gas, which leaves a significant negative impact on the environment, it also creates the opportunity for a new energy-economic development model to emerge.

3,000 座
以上的建置實績
Over 3,000
Client Applications

全球超過
25 個建置地
Over 25 Construction Sites
Around the World

15 年
以上的經驗累積
Over 15 Years of
Experience

產品索引 PRODUCT OVERVIEW

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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 Material Technology" 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", actively develop and sell a variety of lithium iron phosphate 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。

Started exporting internationally to countries such as the United States, China, Vietnam, and the Philippines. 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。

Started getting into energy storage and installed a 1.5MW/1.5MWh ESS container in the Changhua Coastal Industrial Park for the "Forward-Looking Infrastructure Demonstration Program" led by ITRI.

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 by 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.

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 set up both a LFP battery module plant and a LFP battery cell plant (Formosa AdvEnergy) in Changhua Coastal Industrial Park with a total capacity of 2.1GWh.

The construction of phase 1 of both factories completed towards the end of the year and production has begun.

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，並投入第二期擴建。

Formosa AdvEnergy's battery cells and modules are now steadily supplying the energy storage and EV markets, with Phase II expansion already underway.



Taiwan's largest LFP Battery Plant

全台最大鋰鐵電芯基地 彰濱尖端電芯廠

可平抑電網波動的區域型電力緩衝及儲存系統逐漸成為主流趨勢，

除此之外，亦可增加傳統電廠發電效率與再生能源滲透率，

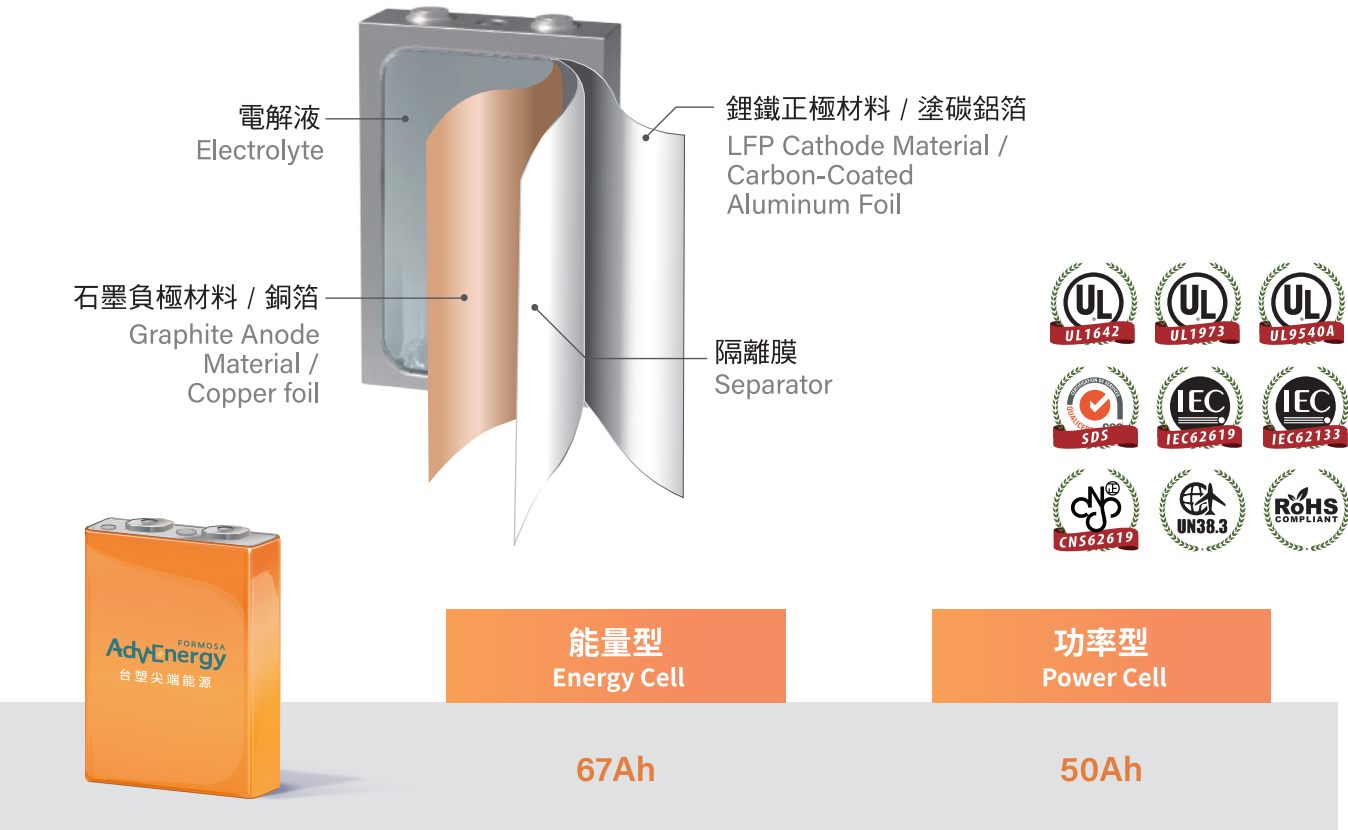
台塑新智能儲能系統是建立於主、從架構與模組化設計下逐步延伸擴充，

並使用台灣唯一經過廣泛驗證的電池管理系統，

可使儲能系統在各種應用中達到最佳化，使客戶獲得更多，付出更少。

Backup supply systems and energy storage systems are becoming increasingly more mainstream when it comes to improving grid instability, increasing the power generation efficiency of traditional power plants, and speeding up the penetration rate of renewable energy.

At Formosa Smart Energy Tech Corporation (FSE), we take a bottom-up approach with the design of our energy storage systems. We have integrated our very own battery management system (BMS), the only BMS in Taiwan that has been extensively tested and certified. Our careful design paired with our BMS helps to ensure our ESS can be optimized for use in a wide-range of applications, creating more value for our customers.



用途 APPLICATION	適用於儲能櫃、 家用儲能、電動車 C&I, Residential ESS, EV	適用於UPS、電動機具及 高功率動力輸出 UPS, Electric Vehicle, High-power Supply
能量密度 ENERGY DENSITY	D43.2 * W100 * H141 mm	D43.2 * W100 * H141 mm
體積能量密度 VOLUMETRIC ENERGY DENSITY	175 Wh/kg	128 Wh/kg
25°C循環壽命 25°C CYCLE LIFE	353 Wh/L	279 Wh/L
45°C循環壽命 45°C CYCLE LIFE	≥4000次	≥3000次
重量 WEIGHT	≥2000次	≥1500次
尺寸(含外包膜) DIMENSION (INCLUDING OUTER FILM)	1235±37g	1250±37g

● 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



項 目 Item	24V UPS 不斷電系統應用		48V UPS 不斷電系統應用	12V DC Charger 直流機系統應用
規格 Specification	24V50Ah	24V67Ah	96V50Ah	12V134Ah
型號 Model	LFP-24V050AH-B	LFP-24V067AH-B	LFP-96V050AH-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	4.8 kWh	1.72 kWh
最大充電電流 MAX Charging Current	100 A (2C)	67 A (1C)	100 A (2C)	110 A (0.8C)
最大放電電流 MAX Discharging Current	325 A (6.5C)	110 A (1.6C)	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*208mm	846*280*200mm	351*221*184mm
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



48V 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	53.6 A (0.8C)	110 A (0.8C)
最大放電電流 MAX Discharging Current	110 A (1.6C)	110 A (0.8C)
配置 Configuration	16S1P	16S2P
尺寸 Dimension D*W*H	612*221*184mm	950*235*181mm
重量 Weight	30 kg	57 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

Transformations lasting over 15 years

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。

In accordance with Formosa Plastics Group's collective working spirit of "creating a moral world through diligence, striving for excellence", all battery modules are subject to the same standardized assembly process, undergo at least two charge and discharge tests, and go through a battery cell matching procedure to ensure the customer is provided with a perfect battery system.





UPS 應用電池系統				
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	576V100Ah	108V134Ah
型號 Model	US050-160IMS5	US067-160AMS1	HC480HU	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	100 A (2C)	67 A (1C)	200 A (2C)	110 A (0.8C)
最大放電電流 MAX Discharging Current	325 A (6.5C)	110 A (1.6C)	405 A (8C)	130 A (0.97C)
配置 Configuration	20S1P	20S1P	6S2P	9S1P
尺寸 Dimension D*W*H	800*600*2100mm	800*600*2100mm	946*667*2150mm	800*650*1600mm
重量 Weight	563 kg	563 kg	1200 kg	278kg

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



戶外型儲能系統 Outdoor ESS		
規格 Specification	768V134Ah	1056V134Ah
型號 Model	ES134-256CMF2α	ES134 -352GMF1
電壓 DC Voltage	819.2 V	1126.4 V
容量 Capacity	109.77 kWh	150.93 kWh
最大充電電流 MAX Charging Current	100 A (0.7C)	100 A (0.7C)
最大放電電流 MAX Discharging Current	110 A (0.8C)	110 A (0.8C)
配置 Configuration	16S1P	22S1P
配備 Equipment	空調系統、消防系統 煙偵感測器、偵溫感測器 Air Conditioning System, Fire Fighting Equipment, Smoke Detector, Temperature Sensor	
尺寸 Dimension D*W*H	1000*1250*2550mm	1000*1250*2550mm
重量 Weight	1325 kg	1700 kg

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



COMMERCIAL & INDUSTRIAL ENERGY STORAGE SYSTEM

工商儲能系統

COMMERCIAL & INDUSTRIAL ENERGY STORAGE SYSTEM 工商儲能系統



Rack 機櫃
768V134Ah
標準版 Standard
儲能電池系統

Rack 機櫃
1056V134Ah
高壓版 High Voltage
儲能電池系統



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	1126.4 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	110 A (1.6C)	110 A (0.8C)	110 A (0.8C)
配置 Configuration	16S1P	16S1P	22S1P
尺寸 Dimension D*W*H	667*545*2001mm	985*560*2001mm	985*560*2439mm
重量 Weight	654kg	1150kg	1480kg

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

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

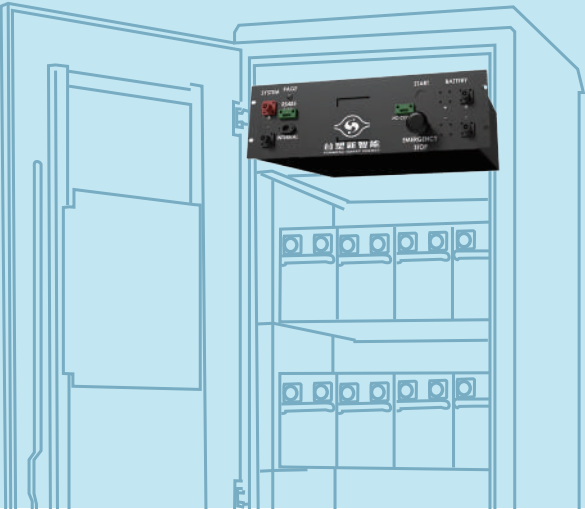
BMS功能 BMS FEATURES

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、可進行高精準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.

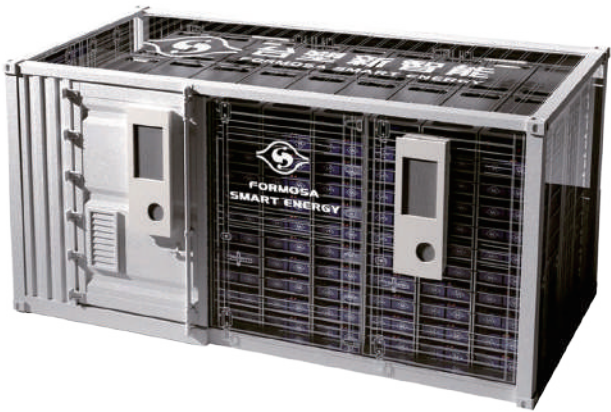




ENERGY STORAGE SYSTEM

貨櫃型儲能系統

20呎貨櫃 20'CONTAINER TEU



使用磷酸鋰鐵電池
Utilizes LFP batteries



防水等級：IP54
Ingress Protection rating：IP54



抗腐蝕防鏽等級:ISO 12944 C5
Corrosion Class: ISO 12944 C5

符合ISO 1496、TIR認證、國際集裝箱安全公約及集裝箱標準、IEEE 693 HIGH LEVEL標準

Complies with ISO 1496, TIR certification, International Convention for Safe Containers(CSC) and container standards, IEEE 693 HIGH LEVEL standards.



消防及環境控制系統
Environmental control equipment



空調系統
Air conditioning system



電池系統
Battery & BMS



電力系統
DC & AUX Panel, UPS



防火門
Fireproof door

ENERGY STORAGE SYSTEM 貨櫃型儲能系統

ESS 貨櫃型 儲能系統

型號 Model	FESS 20-134A	FESS 20-134B	FESS 20-134C
電壓 DC Voltage	819.2 V	1126.4 V	1126.4 V
容量 Capacity	1.97 MW	2.71 MW	3.01 MW
最大充電電流 MAX Charging Current	100 A (0.7C)/Rack	100 A (0.7C)/Rack	100 A (0.7C)/Rack
最大放電電流 MAX Discharging Current	110 A (0.8C)/Rack	110 A (0.8C)/Rack	110 A (0.8C)/Rack
配置 Configuration	16S18P	22S18P	22S20P
尺寸 Dimension D*W*H	6058*2438*2896mm	6058*2438*2896mm	6058*2438*2896mm
重量 Weight	26.8 ton	33 ton	36 ton

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

智慧能源家庭 擁抱綠生活

SMART ENERGY HOME,
EMBRACING GREEN LIFE.

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

SMART NEW CHOICE,
LIGHTING UP MY HOME.



RESIDENTIAL ESS

家用儲能系統

Residential ESS		
	HB134-016EME1	HB268-016EME1
額定容量 [Ah] NOMINAL CAPACITY	134	268
額定電壓 [V] NOMINAL VOLTAGE	51.2	51.2
能量 [kWh] ENERGY	6.86	13.72
尺寸 [L*W*H, mm] DIMENSION	580*300*605	580*300*1055
重量 [kg] WEIGHT	77	143.5

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



Hybrid PCS	
FSE HESS 6KW	
功率 [kW] POWER	6
標稱輸出電流 [A] NOMINAL DISCHARGE CURRENT	每相 25A
標稱輸出電壓 [Vac] NOMINAL DISCHARGE VOLTAGE	120/208/240
標稱直流電壓 [Vdc] NOMINAL DISCHARGE VOLTAGE	48
最大充電電流 [A] MAXIMUM CHARGING CURRENT	120
防水防塵等級 IP RATING	IP65
操作溫度範圍 OPERATING TEMPERATURE RANGE	-10~55°C
尺寸 [HxWxD, mm] DIMENSION	700*515*215.5
重量 [kg] WEIGHT	41

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

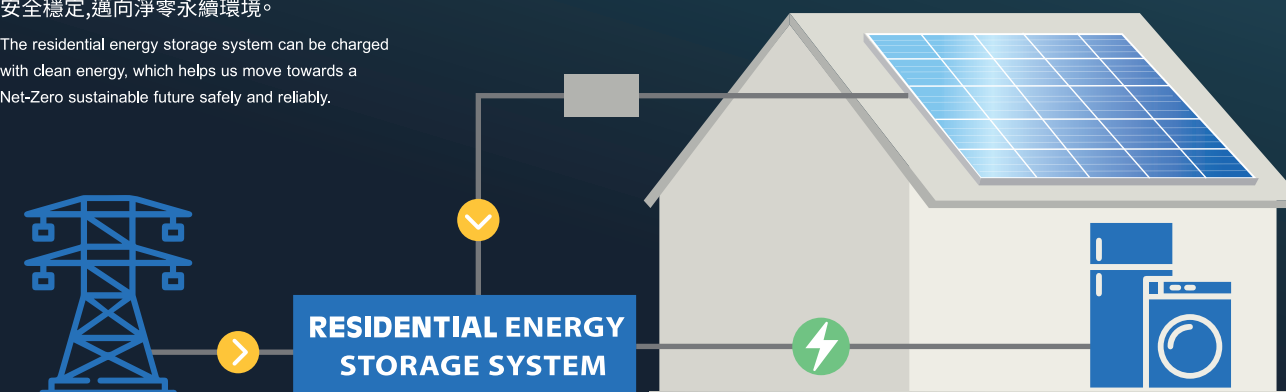
可搭配太陽能系統使用
Can be paired with
a photovoltaic (PV) system

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.





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 BSMI of the Ministry of Economic Affairs implements voluntary product verification for batteries and battery systems used in electric vehicles.



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).



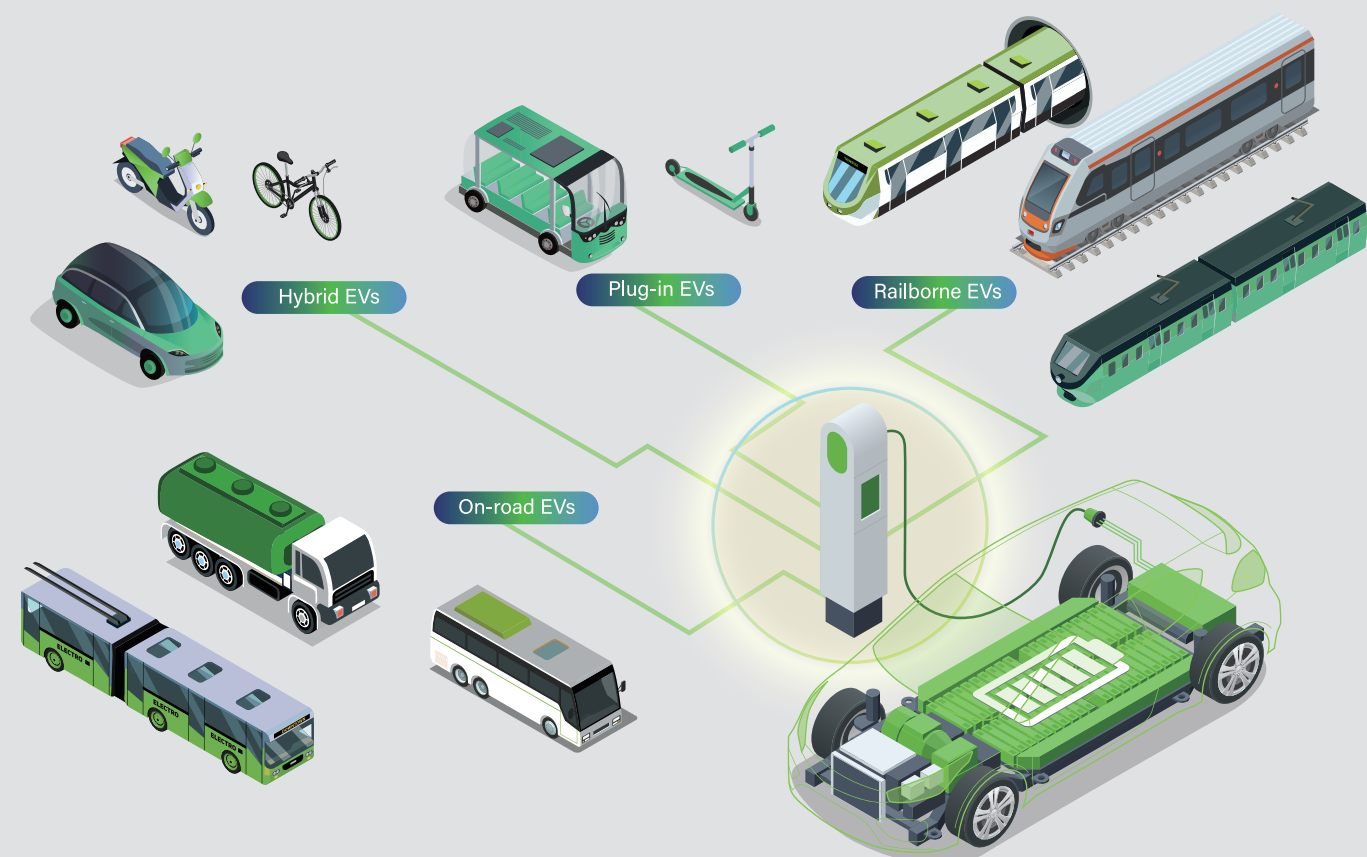
UN38.3

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



ECE R100.03

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



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

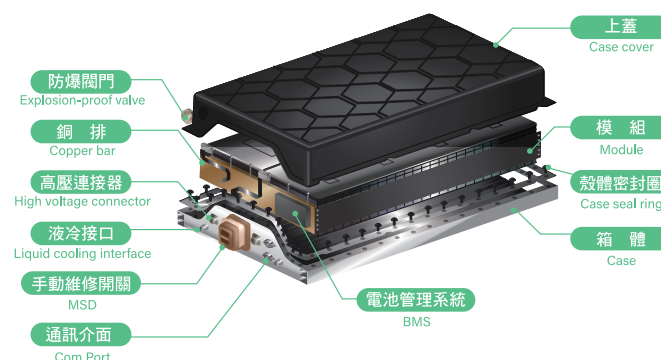
電池系統電量約 250~300kWh。

The battery system capacity is approximately 250-300kWh.



台塑新智能動力電池系統採用自產高能量密度及長循環壽命電芯，開發電動巴士動力電池模組(Pack)電量為 30.8kWh，電壓 153.6V。

The power battery system of Formosa Smart Energy uses domestically produced cells with high energy density and long cycle life. The pack for electric bus is equipped with 30.8 kWh capacity and 153.6V.



成組方式 CONFIGURATION	3P48S
標準電量 NOMINAL ENERGY	30.87 kWh
能量密度 WEIGHT ENERGY DENSITY	≥134 Wh/kg
標準電壓 NOMINAL VOLTAGE	153.6V
工作溫度 OPERATIONAL TEMPERATURE	Charging: 0~55°C Discharging: -30~60°C
熱管理 THERMAL MANAGEMENT	Liquid cooling
IP防護等級 IP LEVEL	IP67
尺寸 DIMENSION	1200*710*200 mm
重量 WEIGHT	230 kg

電動物流車動力電池系統

Electric Commercial Vehicle Battery System

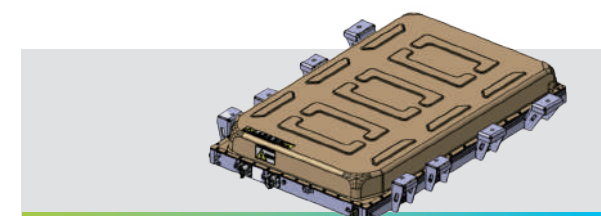
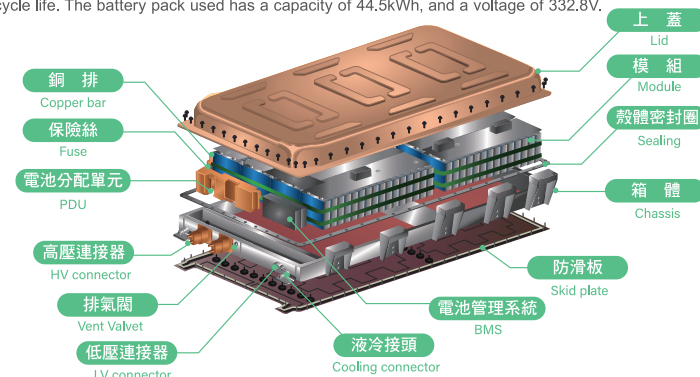
台塑新智能現已與國內車廠合作應用於新開發電動物流車型，動力電池系統電量約44.5kWh。

Formosa Smart Energy has started collaborating with domestic automakers to design new electric commercial vehicle models that can utilize our 44.5 kWh battery system.



台塑新智能動力電池系統採用自產高能量密度及長循環壽命電芯，開發物流車動力電池模組(Pack)電量為44.5kWh，電壓 332.8V。

Formosa Smart Energy's electric commercial vehicle battery system is manufactured with domestically produced battery cells with both higher energy density and longer cycle life. The battery pack used has a capacity of 44.5kWh, and a voltage of 332.8V.



成組方式 CONFIGURATION	2P12S/2P14S
標準電量 NOMINAL ENERGY	44.5kWh
能量密度 WEIGHT ENERGY DENSITY	>123Wh/kg
標準電壓 NOMINAL VOLTAGE	332.8V
工作溫度 OPERATIONAL TEMPERATURE	Charging: 0~55°C Discharging: -30~60°C
熱管理 THERMAL MANAGEMENT	Liquid cooling
IP防護等級 IP LEVEL	IP67
尺寸 DIMENSION	1525*906*211mm
重量 WEIGHT	360kg



TUBULAR PHOTOBIOREACTORS

工業型管道光生物反應器



- 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

Model	50L平行管道設備 50L Photobioreactor	150L平行管道設備 150L Photobioreactor	600L平行管道設備 600L Photobioreactor	5000L平行管道設備 5000L Photobioreactor
管柱數 NUMBER OF TUBES	10	24	64	352
管道總容量[L] VOLUME OF TUBES	30	70	400	4,000
緩衝槽[L] TANK	20	100	200	1,000
佔地面積[L*W*H, cm] LAND AREA	200*100*120	220*100*170	850*150*200	2,500*150*250
操作溫度[°C] OPERATING TEMP.	15~40	15~40	15~40	15~40
光源 LIGHT	RGB	RGB	RGB	RGB



澄源官網
The official website of CH Algae



綠源官網
The official website of InnoGT

農業業務
Agricultural Business

MICROALGAE APPLICATION 微藻應用產品介紹

微藻廢水處理 WASTEWATER TREATMENT

ZSMF-02
移除鉬(Remove Molybdenum)

- pH 4-5
- 適用於化學原材料製造業
Applicable Industry : Chemical raw materials manufacturing
- 用量約0.1-0.15% (w/w)
Dosage: 0.1-0.15% (w/w)
- 反應時間10分鐘
Reaction Time: 10 mins
- 移除率80-90%以上
Removal Rate: 80-90%

ZMF-03
移除鋅(Remove Zinc)

- pH 7-9
- 適用於金屬相關製造業、光電業
Applicable Industry : Metal-related Manufacturing, Optoelectronics Industry
- 用量約0.1% (w/w)
Dosage: 0.1% (w/w)
- 反應時間10分鐘
Reaction Time: 10 mins
- 移除率99%
Removal Rate: up to 99%

BMF-06
移除硼(Remove Boron)

- pH 9-10
- 適用於金屬相關製造業
Applicable Industry : Metal-related Manufacturing
- 用量約1-2% (w/w)
Dosage: 0.1% (w/w)
- 反應時間10分鐘
Reaction Time: 10 mins
- 移除率70-80%
Removal Rate: up to 70-80%

NJ01
泛用型製劑(Multipurpose Agent)

- pH 4-8
- 適用於食品、生活用品業
Applicable Industry : Food Industry, Daily Necessities
- 取代傳統PAC，反應後污泥量減少20%
Replace traditional PAC, resulting in 20% less sludge

*用量依廢水特性調整 Dosage adjustable based on wastewater characteristics

微藻農業應用 AGRICULTURAL APPLICATION

**酵益好培養基
InnoGreat BioM1**

規格
Specification 1,000g/bg

功能
Function 添加微藻粉作為營養來源，大量擴培多種農漁業用好氧菌，實現環境友善之養殖應用。
Formulate with microalgae powder as a nutrient source
Support large-scale cultivation of various aerobic bacteria
Beneficial for agricultural and aquacultural applications
Promote environmental friendly and sustainable practices

**藻營養(綠藻泥)
InnoGreat algae**

規格
Specification 1,000g/btl

功能
Function 改善養殖水質與底泥環境，同時是輪蟲、米蚤等愛用的營養餌料，為友善養殖首選。
Improve water quality and sediment conditions in aquaculture.
Serve as a preferred nutritional feed for rotifers and other zooplankton.

