



TRUEWIN®

儲盈科技

TAIWAN TRUEWIN TECH. CO.,LTD

綠能儲電的專家

儲盈科技 鋰鐵電池產品介紹

2025H2 Business Center
Ver. 5





Outline

TRUEWIN 全球布局
運營狀況
銷售實績
公司優勢

TRUEWIN 產品應用



儲盈科技全球布局



成立時間: April 2017

員工人數: 177 人

資本額: 5.6億

電池模組產能:

300 MWh / Year (2023Q4)

1,200 MWh / Year (2025Q4)

2,100 MWh / Year (2026Q4)

台灣總公司 新竹市東區公道五路二段176號南山科技大樓 9F/10F

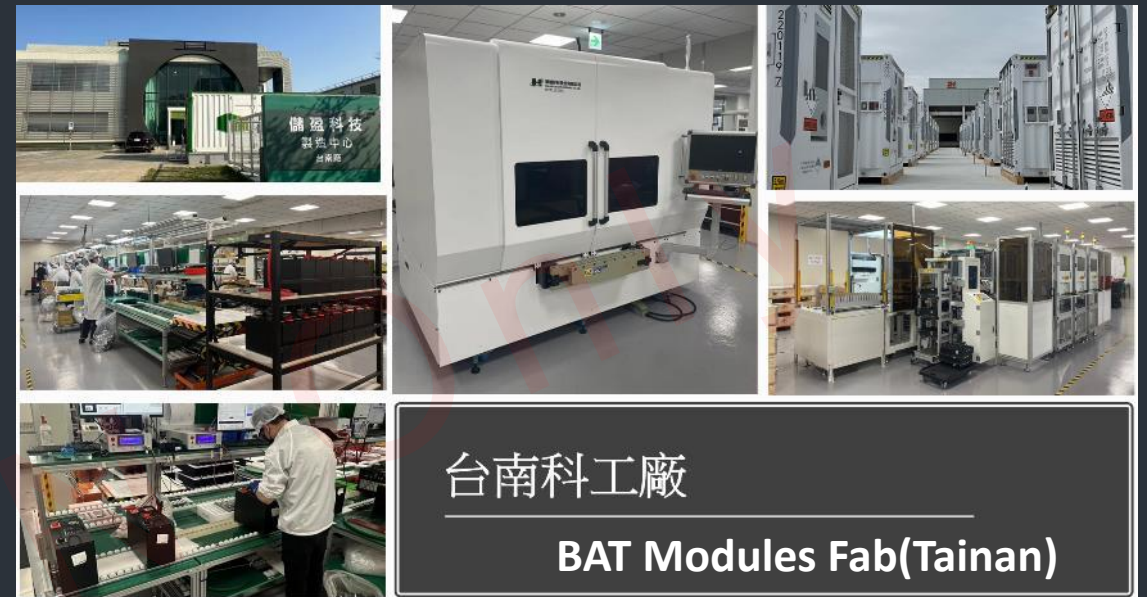
新竹BMS廠 新竹縣竹北市新工二路158號5F

新竹電池模組廠 新竹縣湖口鄉光復路42號

台南研發中心 台南市歸仁區高發二路360號 沙崙綠能科技示範場域 C棟209室

台南電池模組廠 台南市安南區科技五路63號

TRUEWIN Global Offices



儲盈科技 投資公司分布



儲盈科技 搭配實績



共4種機型

Galaxy 7000 MGE-800
Galaxy VM
Galaxy VS



共18種機型

DPM-450 / DPM-550 / DPM-825
DPH-75 / DPH-150 / DPH-200
DPS-380
NT系列 30K - 500K



共3種機型

DELPHYS
GP 500
MX500 / MP200



共2種機型

Liebert
APM 250 / APM 500



MR33 600



FT 系列



共15種機型

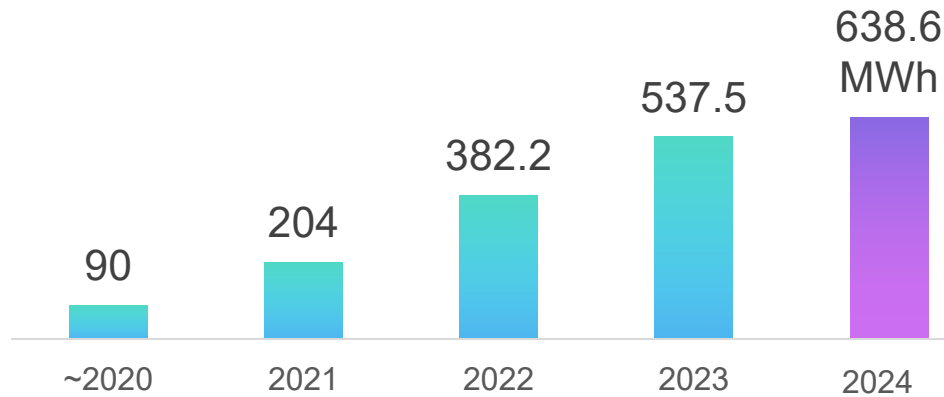
Xpert 9395全系
93ET / 93E 100KVA

全球超過40
種機型搭配

儲盈科技 出貨安裝實績



累計電池出貨量



TRUEWIN Tech. 已為多家主要半導體客戶，安裝超過 500 MWh 的鋰鐵電池系統，為半導體製造商 (T, U, P, M, W... etc.) 提供服務台。

台灣市佔率超過 90%。

Taiwan ,
91.63%

各國產品出貨量統計

China,
7.36%

Singapore,
0.92%

USA, 0.08%

Japan,
0.01%

Semiconductor
Equipment , 88.57%

依產業別之產品出貨量統計

Utility Grid, 11.22%

High Speed Rail,
0.13%

Electronic
Industry , 0.07%

Residential
Industry, 0.01%

儲盈科技 出貨安裝實績



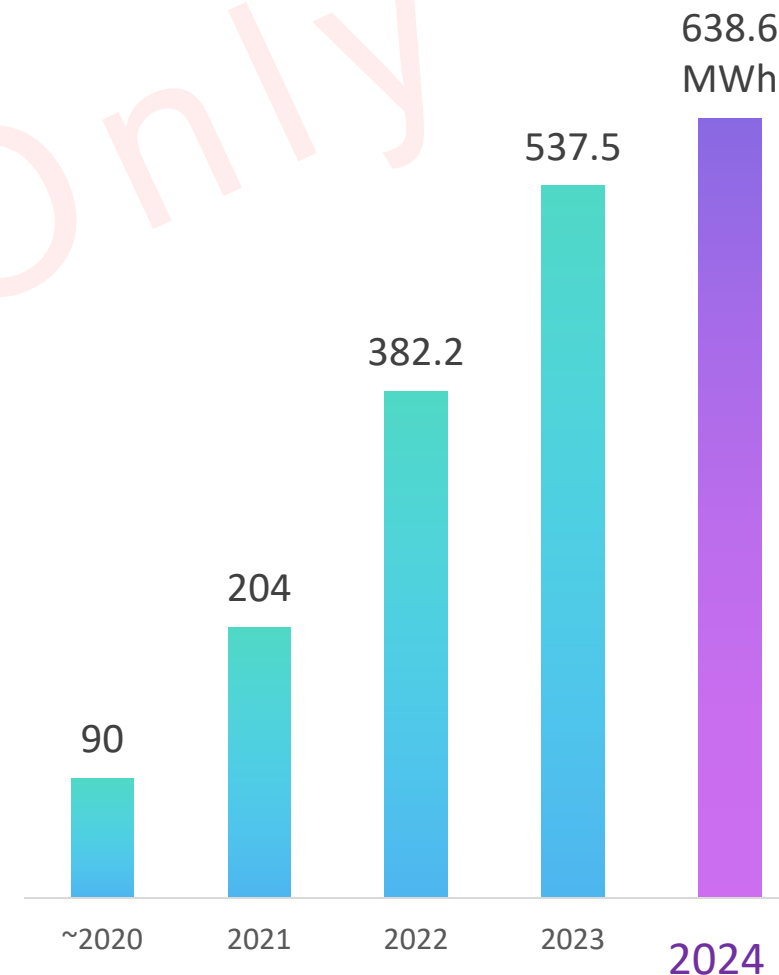
績

	Customer	Installed Site	Capacity (kWh)	UPS (kVA)	Since
台灣	System integrator	M Company	E-dReg	66,000	
		T Company	Facility System	424,681 300-825KVA	2019
				32,615 DC BANK	
		U Company	Facility System	25,339 500KVA	2021
		W Company	Facility System	6,364 500KVA	2021
		X Company	Facility System	5,422 20-500KVA	2020
	Wafer Fab	S Company	Facility System	3,130 50-120KVA	2021
		PS Company	Facility System	2,762 200-825KVA	2021
		M Company	Facility System	2,221 120-160KVA	2021
		P Company	Facility System	394 200KVA	2021
		W Company	Facility System	300 DC Charger	2020
		AS Company	Facility System	278 825KVA	2021
	Wafer Probe & Packaging Fab	K Company	Facility System	11,122 120-600KVA	2017
		G Company	Facility System	3,634 500KVA	2020
		A Company	Facility System	1,402 100-500KVA	2020
	TFT-LCD Panel Fab	I Company	Facility System	1,345 20-200KVA	2020
		C Company	Facility System	80 Diesel Generator	2023
		C Company	Facility System	614 125KVA	2022
	IC Design House	R Company	Facility System	20 500KVA	2020
	Chemical Fab	AL Company	Facility System	225 10KVA	2020
	Solar Fab	U Company	Facility System	100 250KVA	2021
	Mask Fab	PD Company	Facility System	64 80KVA	2021
				647 40-60KVA	2022
	High Speed Rail	T Company	Distribution Station	104 DC Charger	2023
		V Company	Cell Site	255 SMR	2021
	Electronics Industry	F Company	Eco-Car	74 SMR	2022
	Information Technology Sector	M Company	Cell Site	125 SMR	2023
	Energy Sector	G Company	Home	46 Energy Sector	2023
中國	Wafer Fab	T Company	Facility System	43,092 30-825KVA	2018
				242 DC Charger	2018
新加坡	Semiconductor Equipment	C Company	Process Equipment	5,389 300-825KVA	2022
美國	Semiconductor Equipment	AM Company	Process Equipment	457 160-200KVA	2018
		L Company	Process Equipment	64 20KVA	2017
日本	Semiconductor Equipment	TL Company	Process Equipment	20 20KVA	2017

台灣

589.4 MWh

TRUEWIN累計電池出貨量



TRUEWIN®

儲盈科技 出貨安裝實績



台積公司繼領先業界首創智慧節能不斷電系統，民國109年進一步率先採用環境友善的鋰鐵電池，預計於民國119年前全面導入台灣廠區 資料來源: 台積電官網

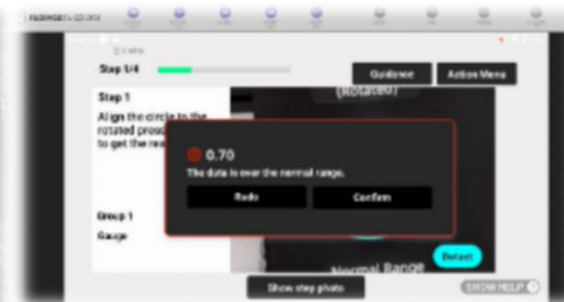


儲盈科技 半導體級別售後維運



◆ 儲盈科技售後維運團隊:

- 7*24小時售後20人維運團隊, 可於設備發生告警時, 快速進行電話端告警判斷, 並於12hrs內人員到場, 48hrs內排除異常.
- 導入AI agent經AR/XR device, 大幅降低裝機與維運時發生錯誤機率, 確保機台復機速度與人員安全.



儲盈科技售後服務據點



售後服務團隊

重要據點將配合目前的半導體
晶圓大廠及AI DC客戶

台灣 (台北、新竹、台中、台南、高雄)

中國大陸 (浙江嘉興、上海、南京)

新加坡 (東南亞)

日本 (福岡、熊本)

美國 (加州 LA 爾灣、亞利桑那州鳳凰城)

歐洲 (德國德勒斯登)



Next

TRUEWIN 全球布局
運營狀況
銷售實績
公司優勢

TRUEWIN 產品應用



儲盈科技 儲盈鋰鐵電池三大特點



電芯特色



STOBA技術

將材料導入電池芯內可有效抑制電池熱失控，對輕微的微短路所引發的自放電現象也可有效提升。

台製高透率隔離膜技術

其隔膜孔隙率超過50%以上。

透過高孔隙率，延長電池循環壽命及降低鋰離子擴散阻抗

模組特色

BMS採樣電路板:

使用與電動車同等級之板件

BMS管理系統優勢

自主研發之BMS電池管理系統，

通過IEC/UL60730-1

IEC61000-6-2/-4(工業設備

EMC標準)BMS EMC抗干擾能力

達到Level_4等級之安規需求。

儲盈科技 安規認證與產物保險



UL1642

IEC62619

UL1973

UN38.3

IEC 60730_H

IEC 61000

CERTIFICATE OF COMPLIANCE

Certificate Number: MH62773
Report Reference: MH62773-2019-08-03
Date: 2021-August-12

Issued to: Jiangsu Chunlan Clean Energy Academy Co., LTD.
No. 18, Yinglin Road, Hailing District
Taichou, Jiangsu 225300, CN

This is to certify that representative samples of

LITHIUM BATTERIES - COMPONENT
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: Standard for Safety for Lithium Batteries, UL 1642

Additional Information: See the UL Online Certifications Directory at <https://ul.ulinspect.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) OR SCHEME

CB TEST CERTIFICATE

Product: Rechargeable Lithium-ion Cell

Name and address of the applicant: JIANGSU CHUNLAN CLEAN ENERGY ACADEMY CO., LTD.
No. 18, Yinglin Road, Hailing District Taichou, Jiangsu, 225300, China.

Name and address of the manufacturer: JIANGSU CHUNLAN CLEAN ENERGY ACADEMY CO., LTD.
No. 18, Yinglin Road, Hailing District Taichou, Jiangsu, 225300, China.

Name and address of the factory: JIANGSU CHUNLAN CLEAN ENERGY ACADEMY CO., LTD.
No. 18, Yinglin Road, Hailing District Taichou, Jiangsu, 225300, China.

How often must this certificate be renewed? □ Additional Information on page 2

Rating and principal characteristics: 3.2V, 100Ah

Trademark (if any): NA

Customer's Testing Facility (CTF) Stage used: IPE100

Issue Type Ref: □ Additional Information on page 2

Additional information (if necessary may also be reported on page 2): IEC 62619-2017

A sample of the product was tested and found to be in conformity with: RESS-478970435-001 issued on 2021-07-19

As shown in the Test Report Ref. No. which forms part of this Certificate

This CB Test Certificate is issued by the National Certification Body

UL LLC, 333 Peachtree Street, N.E., Atlanta, Georgia 30308, U.S.A.
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Date: 2021-07-27

Signature: Jin-Erik Stenmark

CERTIFICATE OF COMPLIANCE

Certificate Number: MH65003
Report Reference: MH65003-2021-10-08
Date: 2021-October-14

Issued to: Togowin Technology Co Ltd
14FL-1 295 SEC 2 Guanglu Rd East District
Hsinchu TW

This is to certify that representative samples of

BATTERIES FOR USE IN STATIONARY, VEHICLE AUXILIARY POWER AND LIGHT ELECTRIC RAIL APPLICATIONS - COMPONENT
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: Standard for Batteries for Use in Stationary, Vehicle Auxiliary Power and Light Electric Rail (LER) Applications, ANSI/UL 1973

Additional Information: See the UL Online Certifications Directory at <https://ul.ulinspect.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.

intertek
Total Quality Assurance

Togowin Technology Co., Ltd.
TEST REPORT

SCOPE OF WORK: TYPE TESTING OF SECTION 38.3 LITHIUM BATTERIES OF UNITED NATIONS RECOMMENDATIONS ON THE TRANSPORT OF DANGEROUS GOODS (REV.7), FOR RECHARGEABLE BATTERY, MODEL TW-BP-2410B-UL

REPORT NUMBER: 2110050575F-001

ISSUE DATE: Draft 16-December-2021

PAGES: 21

DOCUMENT CONTROL NUMBER: GFT-OP-10h (26-Nov-2018)
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UL LLC

Presented This

FUNCTIONAL SAFETY REPORT

File: M185003
Project: 4789989916

To: TAIWAN TRUEWIN TECHNOLOGY CO., LTD.
14FL-1 300 295 SEC 2 Guanglu Rd East District, Hsinchu TW

The following product(s) were found in compliance with the standard(s) listed on Page 2:

PRODUCT - Battery Model TW-BP-2410B-UL with BMS Model TW-BMS-CMACT-UL

Jax Wang(TV) Sunny Liu
Issued by: Jax Wang(TV) Sunny Liu
Issued on: 2022-01-28

Amo Zhang
Reviewed by: Amo Zhang
Issued on: 2022-01-28

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

HATEX

Test Report

Report No.: HA0122NB010215EM
Applicant: Ningbo Zhaoneng New Energy Technology Co., Ltd.
Address: Room 102, Building 52 No. 8, No. 45 Shengming North Road, Ningbo High-tech Zone, Zhejiang

Trade Mark(s): NA
Manufacturer: Same as the applicant
Address: Same as the applicant
Manufacturing site: Same as the applicant
Address: Same as the applicant

Equipment Under Test (EUT):
EUT Name: Battery Management System
Model/Type No.: TW-BMS-CMACT
Standards: EN IEC 61000-6-2:2019
Note: Conduct Radiated Immunity, ESD, EFT, Surge Immunity, Insulated Contents and Power Frequency Magnetic Field Immunity test only according to customer's requirements

Date of Receipt: January 17, 2022
Date of Test: January 26, 2022
Date of Issue: January 26, 2022
Test Result: PASS

Prepared By: Jax Wang(TV) Sunny Liu
Reviewed By: Amo Zhang
Engineer: Jax Wang(TV) Sunny Liu
Manager: Amo Zhang

Prepared By: Jax Wang(TV) Sunny Liu
Reviewed By: Amo Zhang
Engineer: Jax Wang(TV) Sunny Liu
Manager: Amo Zhang

Page 1 of 20

保險單號碼：1504 字第 11PD01255 號

本單係

號續保

要保人：儲盈科技股份有限公司

住所(通訊地址)：300 新竹市

光復路二段295號14樓之1



國泰世紀產物保險股份有限公司

Cathay Century Insurance Co., Ltd.

承保範圍

產品責任險

每一個人體傷或死亡

每一事故之體傷或死亡

每一事故財物損失

保險期間之最高賠償金額

保險金額(新台幣)

5,000,000.*元

30,000,000.*元

20,000,000.*元

200,000,000.*元

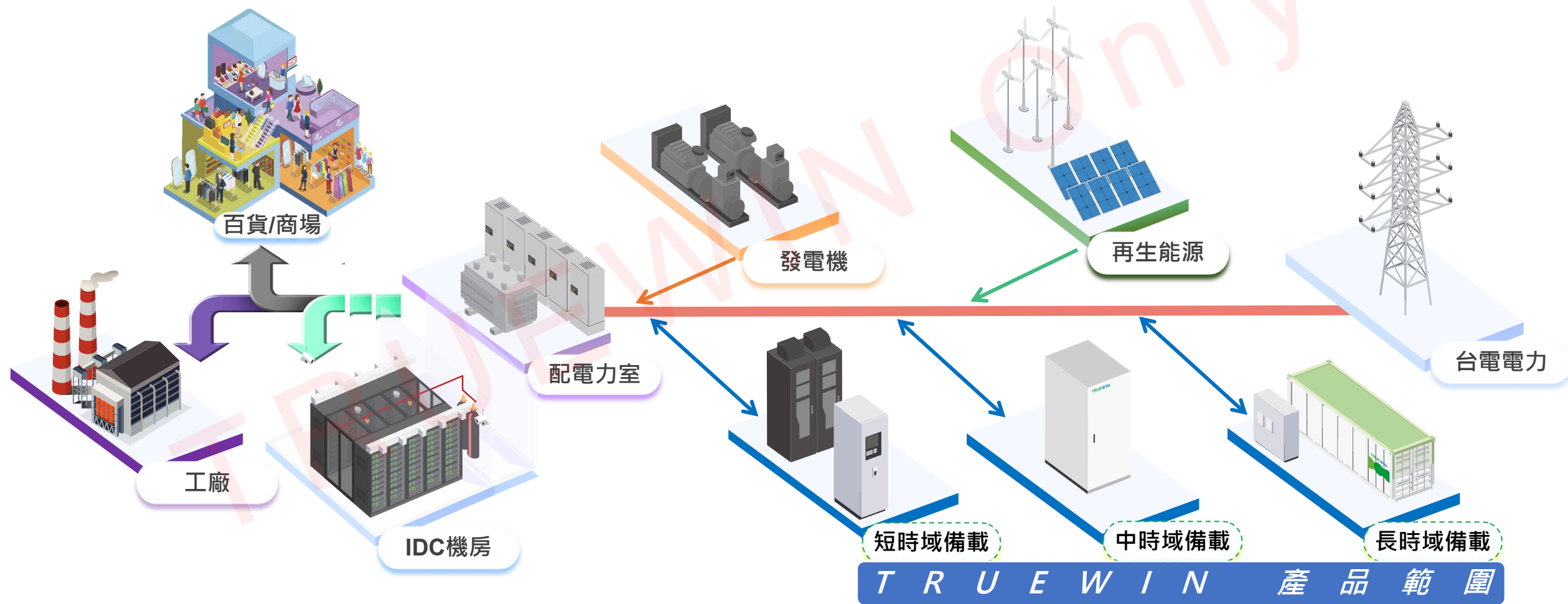
產品責任險 最高 賠償金額 新台幣 2 億元

儲盈科技 全時域備載儲能解決方案



全時域意為針對 <短、中、長> 不同時間提供緊急用電

儲盈科技為台灣唯一可支援全區間備載時間之鋰電池產品供應商，可配合整合全案場系統 <發電機 / 再生能源>



儲盈科技 全時域備載儲能解決方案



Provide comprehensive backup power storage services for diverse customer needs.

When customers need different backup times, TRUEWIN offers both indoor and outdoor systems tailored to those specific requirements.

短時域 (同 t公司規格)

512V battery cabinet

特色

- 支持各大UPS廠商
- 可支持5-30分鐘瞬時備載



中時域 (成本優勢規格)

832V All-in-one system

特色

備載於儲盈 512V 短時域產品之後，單座可支持60分鐘即時備載



長時域 (AI 電力-電網級規格)

1228V High Voltage system

特色

備載於儲盈 512V 短時域產品之後，單座可支持300分鐘以上長時備載



儲盈科技 長時域 (電網級規格)-Aurora Series ESS



Aurora GF0(0.5C)

額定電壓	1228.8V
電壓範圍	1036.8 V–1382.4 V
額定容量	2,752 kWh
貨櫃數量	1
電池櫃數量	8
尺寸	20 呎

Aurora Series

- 整體防火設計，火災預防與滅火相結合
- 符合國際標準，抗腐蝕防鏽
- 採用乙二醇液冷系統，提升冷熱交換效率，降低能量耗損



液冷散熱及消防設計



儲盈科技 長時域 (電網級規格)-Aurora Series ESS



第一級BMU



第二級BCU



第三級BSU



TW-BP-154280B1

TW-HVC-1228280

Aurora one

額定電壓	153. 6V	1228. 8V	1228. 8V
額定容量	43 kWh	344 kWh	2752KWh (0. 5C)
額定充電電流	140 A	140 A	1120 A
最大充電電流	280 A	280 A	2240 A
充電截止電壓	172. 8 V	1382. 4 V	1382. 4 V
標準放電電流	140 A	140 A	1120 A
最大放電電流	280 A	280 A	2240 A
放電截止電壓	129. 6 V	1036. 8 V	1036. 8 V
尺寸 (WxHxD)	810*250*1110 mm	926*2438*1066mm	20 ft 櫃
重量 (± 2. 5% kg)	300 kg	3, 450 kg	40噸

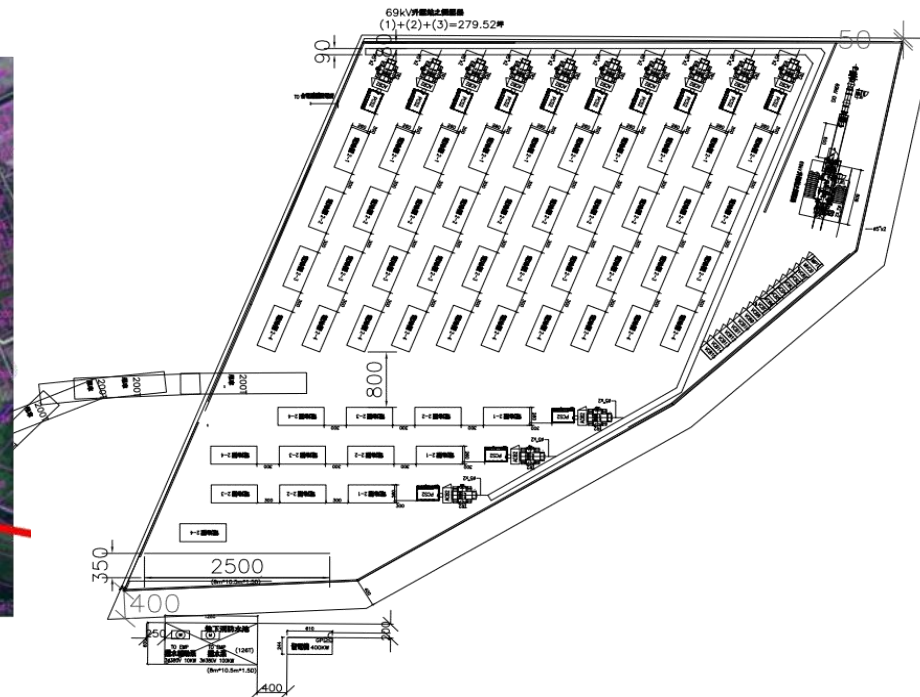
TRUEWIN Grid-level On-going Project



➤ Capacity : 50 MW/ 143 MWH

AFC E-dReg
BESS

Grid-level Application
with Local Grid
Company



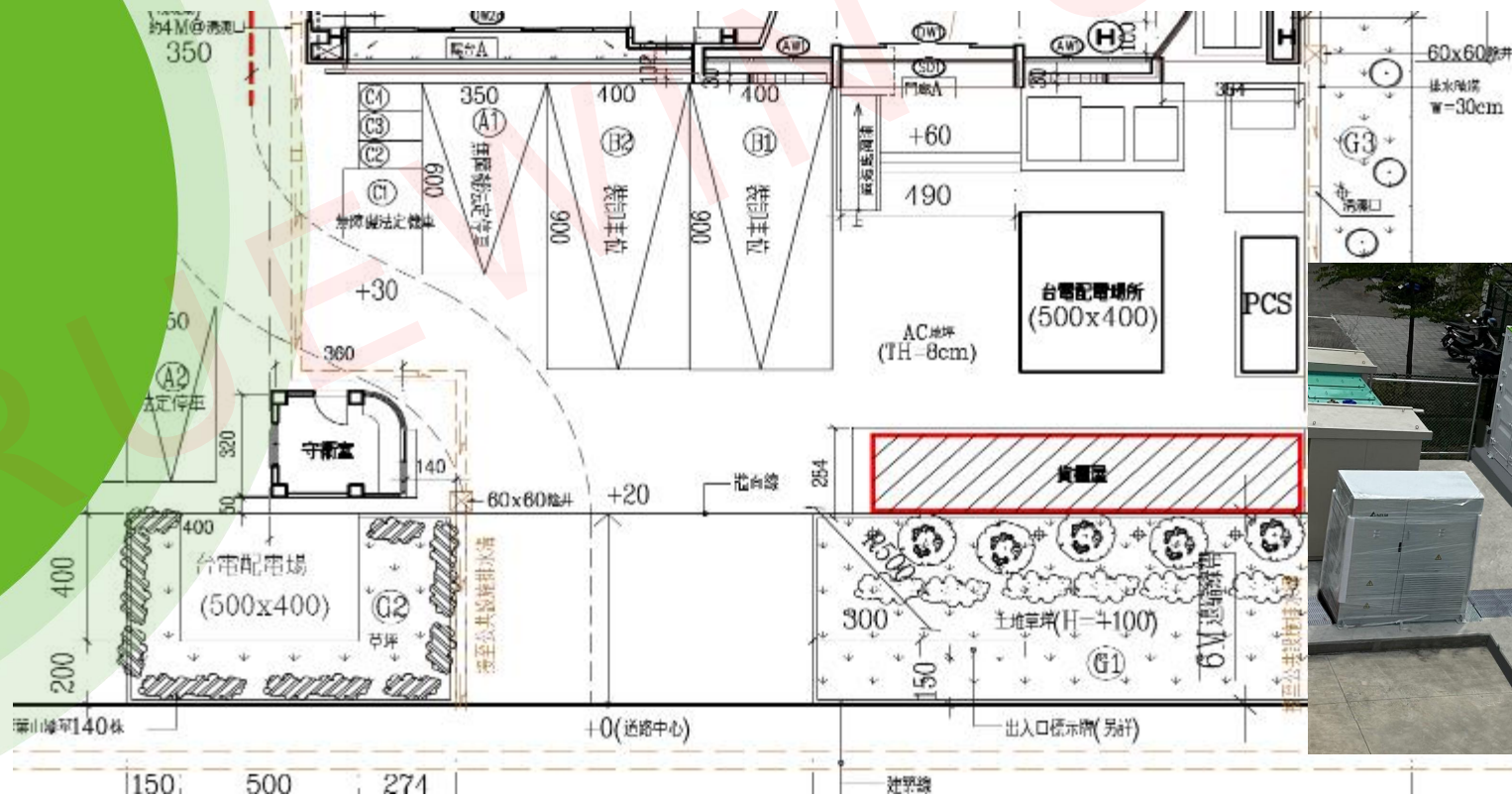
52 Sets of Battery System Containers

TRUEWIN Grid-level On-going Project



AFC dReg
BESS
2,000 kW
2,100 kWh

2MW AFC
台南科工區





儲盈科技 Ostar 儲能系統 (TW-SESS- 08320314V1_IP55)

功率	
額定輸出	125kW
交流輸入	
接線方式	3Ph+N+PE
額定電壓	400V
運行電壓範圍	340~440V
滿載電壓範圍	380~440V
頻率範圍	50/60±5Hz(可設定)
輸入電流	≤200A
功率因數	0.99，滿載 Full Load
交流輸出	
電壓範圍	340~440V
滿載電壓範圍	380~440V
頻率範圍	50/60±5Hz(可設定)
功率因數	≥0.99



消防系統

STOBA
電池模組

內置氣溶膠

液冷系統

功率轉換器

智能雙管理系統

系統參數	
額定電壓	832V
工作電壓範圍	715V – 949V
電池模組配置數量	5 顆 166.4V314Ah 模組
冷卻方式	液冷
總容量	261kWh
可用容量	235kWh(DoD90%)
額定充放電流	157A
最大允許充放電流	180A (10s)
整機效率	≥90%
工作溫度範圍	0°C ~ +45°C
IP 防護等級	IP 55
尺寸 (WxDxH)	1000x1300x2250 mm
重量	2380 kg

*產品示意圖，實際外觀依出貨為主



消防系統_氣態全氟己酮

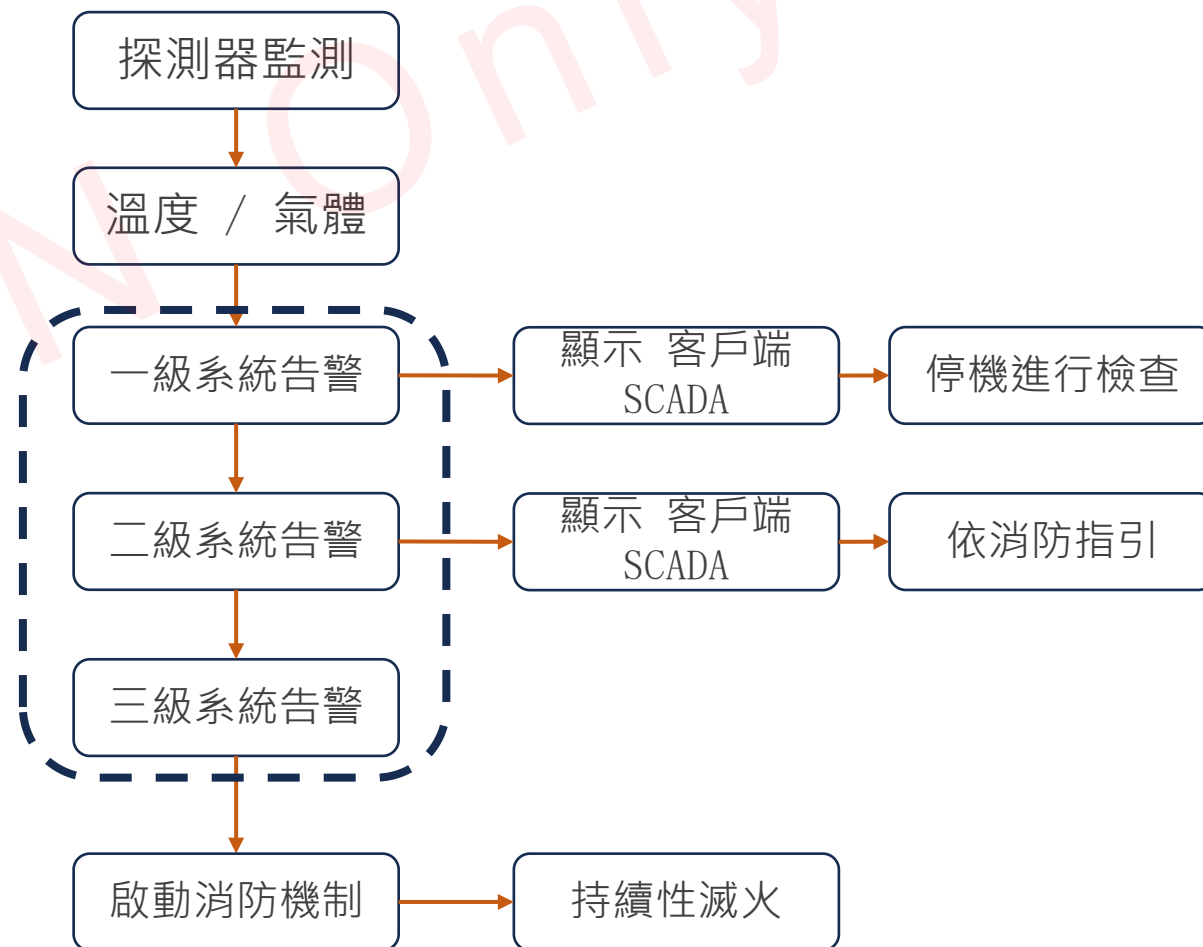
- 1.噴灑後殘留度低, 對於人體毒性也較低
- 2.快速對電池模組內部填滿藥劑已達絕氧降溫

消防連接每個電池



消防系統_監控開啟機制

三層式監控機制, 絕佳保護措施



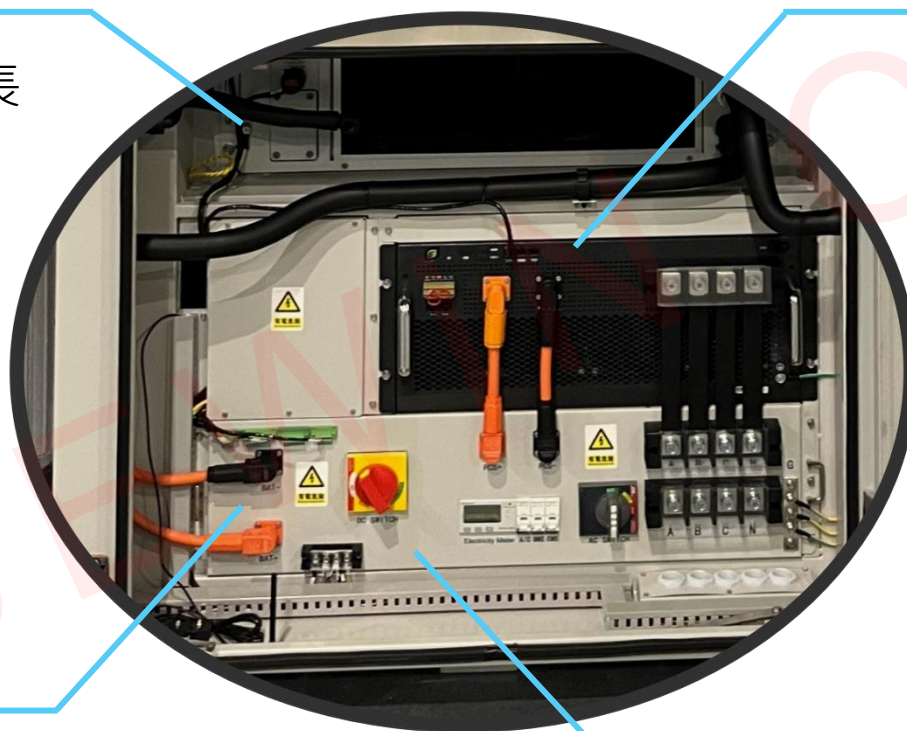


液冷系統_STOBA COOLING

冷卻液添加STOBA配方, 可延長設備壽命

儲盈子公司ODM 功率轉換器 (PCS)

已取得 TUV EN 62477-1 歐盟安規



基礎能源管理系統 (BEMS)

模塊化設計, 具基礎排程充放電功能, 可新增擴充客戶需求

半導體等級電池管理系統 (SBMS)

採用 t 公司相同等級原料與設計邏輯



基礎能源管理系統_簡易SCADA介面

1. 功率轉換器 / 電池系統監控
2. 定時排程充放電設定



儲盈科技 工商儲能通訊架構圖

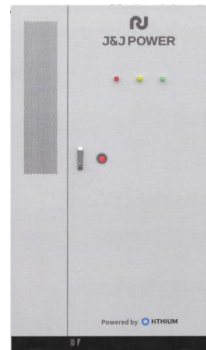


TRUEWIN Only

儲盈科技 工商業一體儲能機 – 與他牌比較



TRUEWIN Ostar



J&J Power



盛齊 Fusio One



SEGL



長庚能源

功率

額定輸出 (kW)	125	125	100	100	30/62.55
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系統參數

額定電壓 (V)	832	832	768	672	819.2
標稱容量 (Ah)	314	314	280	~314	93.39
總容量 (kWh)	261	261	215	224	84
標準放電電流 (A)	~155	157	<140	<157	75/110
放電倍率 (C)	0.5~0.7	0.5C	<0.5	<0.5	0.5~1C
尺寸 (W*D*H, mm)	1000*1300*2250	1300*1300*2280	1000*1350*2280	1600*1100*2100	1345*1210*1900
占地面積 (m ²)	1.3	1.69	1.35	1.76	1.63





512V IDC備載系統 IEC UN38.3 PASSED

- 體積小、容量大
- 適用於高效率DATA CENTER

	TW-MVC-0512280A1	TW-MVC-0512100A1	TW-MVC-512050
額定電壓	512V	512V	512V
工作電壓範圍	430V – 576V	430V – 576V	430V – 576V
額定容量	280Ah / 143.4kWh	100Ah / 51.2kWh	50Ah / 25.6kWh
額定充電電流	84A	30A	12A
最大持續充電電流	140A	50A	25A
額定放電電流	140A	400A	300A
最大持續放電電流	280A	500A (30s)	350A
尺寸 (WxHxD)	800 x 2000 x 950mm	550 x 2000 x 700mm	597.3x2087x829 mm
重量 (± 0.5kg)	1500 kg	750 kg	610 kg
備援時間	1hr以上	15min-30min	5min-10min





24V
BACKUP
POWER

四種型號、兩種容量
適用於不同場景
可串可併設計
達到最高自由度



TW-BP-2450A1



TW-BP-2450B



TW-BP-2450H2



啟動備載

TW-LVC-24100S

額定電壓	25. 6V	25. 6V	25. 6V	25. 6V
額定容量	50Ah	50Ah	50Ah	100Ah
額定充電電流	15A	15A	15A	30A
最大充電電流	25A	25A	25A	50A
充電截止電壓	28. 8V	28. 8V	28. 8V	28. 8V
標準放電電流	300A	300A	400A	300A
最大放電電流	350A	350A	500A	1500A (8s)
放電截止電壓	21. 5V	21. 5V	18V	18V
尺寸 (WxHxD)	341x173x270mm	130x210x660mm	173x305x341mm	420x277x215mm
重量 (± 0. 5kg)	17kg	18kg	18kg	35kg



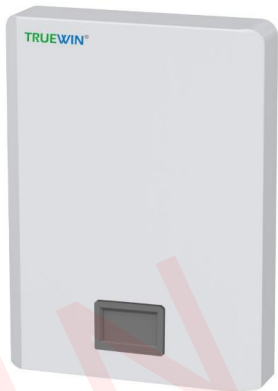
48V
Residential
BESS

Easy installation
Minimalist design
5kWh

STATIONARY

Online

Require hybrid inverter
Amis5



Nominal Voltage	51.2 V
Usable Capacity	5 kWh
Modules Connection	1 ~ 6 Parallel
Voltage Range	44.8 ~ 57.6 V
Temperature	0 ~ 45°C
Cycle Life	3,000 cycle (DoD 90%)
Dimension (WxHxD)	400 x 620 x 152 mm
Weight (± 0.5kg)	46 kg
Protections	Battery: Over-charge, Over-discharge, Over-temperature, Under-temperature, Over-current, Short-circuit



說明: 太陽能板 30PCS 10.05kW 安裝完成



說明: 設備區安裝完成



說明: 設備安裝完成



說明: 變壓器及 ATS 箱安裝完成



Micro GRID BESS

PV: 5.7 kW

BESS:

6 kW

10 kWh



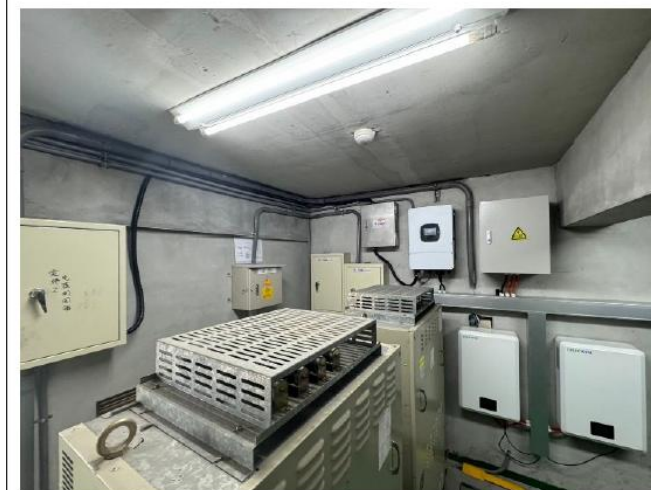
說明: 儲能設備擺放區域



說明: 設備區安裝完成



說明: 儲盈 TW-HESS-04810001 儲能電池



說明: 6kW+10kWh 儲能系統建置



TRUEWIN[®]

儲盈科技

TAIWAN TRUEWIN TECH. CO.,LTD

-END-