

20呎貨櫃型儲能電池

20' CONTAINERIZED
ENERGY STORAGE BATTERY

5644.2 kWh



高性能 High Performance

- CATL 530Ah LFP 電池
CATL 530Ah LFP Battery
- 能量密度 382 kWh/m² (不含外部冷卻區域)
Energy density: 382 kWh/m² (excluding external cooling area)
- 0-100% 放電深度，完整釋放容量，效益最大化
0-100% DOD Maximizes capacity utilization
- 自動校正 SOC，免定期充放電，降低電費成本、提升可用時數
Automatic SOC calibration, eliminating the need for regular charge/discharge cycles, reducing electricity costs, and extending available operating hours

高安全 High Safety

- 高熱穩定性 LFP 電芯
High thermal stability LFP cells
- IP55 防護等級，戶外適用
IP55 protection rating, suitable for outdoor use
- C5VH 最高等級抗腐蝕設計
C5VH top-level anti-corrosion design
- UPS 獨立供電 (消防、BMS)
Independent UPS power supply (for fire protection system, BMS)
- 四級消防策略
Four-level fire protection strategy
- 預警系統 (煙霧 / H₂ / 溫度 偵測)
Early warning system (smoke / H₂ / Temperature Detection)
- 通風排煙、防爆排氣
Ventilation & Explosion-Proof Exhaust
- 氣溶膠初期滅火
Aerosol Fire Suppression
- 乾管噴淋滅火 (火災時自動注水，避免誤觸洩漏，專為電池貨櫃設計)
Dry-Pipe Sprinklers for Battery Containers (designed specifically for energy storage containers to avoid false triggering and leakage)

長壽命 Long Lifespan

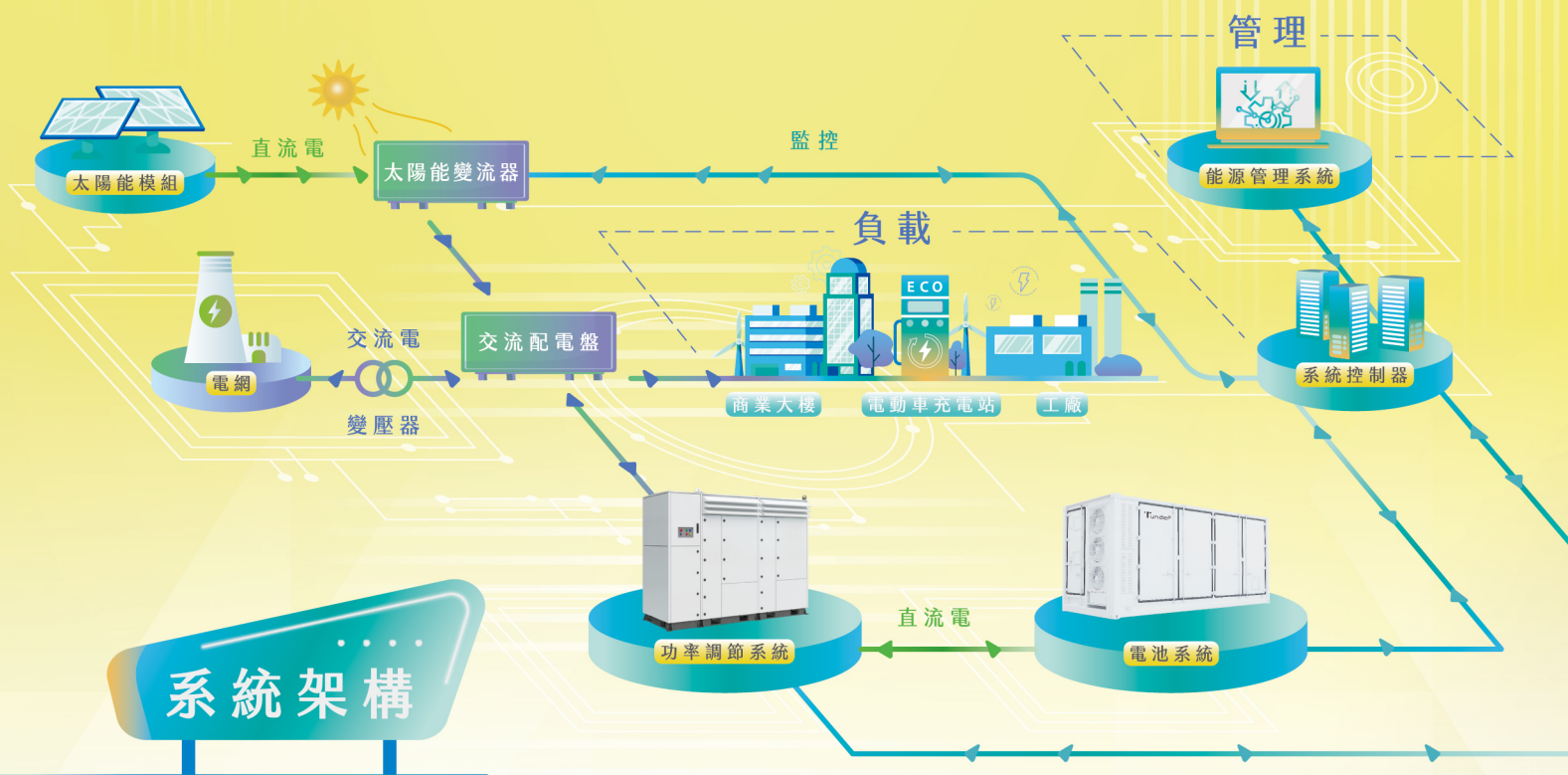
- 整合式液冷，電芯溫差 <3℃
Integrated liquid cooling, cell temperature difference <3℃
- 設備壽命可達20年
System lifespan up to 20 years

高集成 High Integration

- CTP (Cell To Pack) 高能量密度設計保證 20 年壽命
High energy density design 20-Year
- 最新背靠背擺放，大幅提升空間效率
Latest back-to-back layout for significantly improved space efficiency
- 有效降低 EPC 成本
Effectively reduces EPC costs

TUN GREEN POWER

系統架構



產品型號 MODEL

EnerX

電芯參數 Cell Specifications

電芯類型 Cell Type	LFP 530Ah
電芯電壓範圍 Cell Voltage Range	2.5-3.65V
電芯額定能量 Cell Rated Energy	1696Wh

電櫃參數 Container Specifications

電池配置 Battery Configuration	8P4S(1P104S)
額定能量 Rated Energy	5644.2kWh
額定電壓 Rated Voltage	1331.2 VDC
電壓範圍 Voltage Range	1040~1500 VDC
額定充電電流 Rated Charging Current	2120A
最大充電電流 Max Charging Current	2174A /1min
額定充電功率 Rated Charging Power	2822.14kW
額定放電電流 Rated Discharging Current	2120A
最大放電電流 Max Discharging Current	2714A /1min
額定放電功率 Rated Discharging Power	2822.14kW
冷卻方式 Cooling Method	液冷 Liquid Cooling
工作環境溫度 Operating Temperature Range	-35℃~55℃
防護等級 Protection Rating	IP55
尺寸(寬*深*高) Dimensions (W×D×H)	2438*6058*2896mm
重量 Weight	45t
認證 Certifications	UL1973、NFPA855、UL9540A、 UL9540、IEC62477、IEC62619、 IEC62933-5-2、IEC61000-6-2、 IEC61000-6-4、IEC63056、UN38.3

*以上資料僅供參考，實際規格請依專案圖紙為準

The above information is for reference only. Actual specifications shall be based on the project drawings.

*若有更新，恕不另行通知。

Updates may be made without prior notice.

