



FELIS-RPO-DC261
C&I Energy Storage Cabinet

261kWh



Advanced Fire Protection

Pack-level aerosol suppression triggers instantly on thermal runaway, quenching fires via chemical inhibition, cooling & oxygen isolation against re-ignition.



Wide Compatibility

Compatible with mainstream PV inverters and power grid systems, offering broader application scenarios.



Smart & Efficient

Supports remote monitoring and automatic fault early warning, enabling efficient and hassle-free operation and maintenance.

This product is a lithium iron phosphate (LFP) I&C Energy Storage System designed and manufactured by TFL. Applicable to factories, commercial malls, industrial parks and other scenarios.



INTRODUCTION

The FELIS-PRO-DC261 liquid-cooled industrial and commercial energy storage cabinet is integrated with a power conversion system (PCS), temperature control system, fire protection system, battery management system (BMS), lithium-ion battery system, and dynamic environment monitoring system. The lithium-ion battery system comprises 5 sets of liquid-cooled battery PACKs and the BMS. Each liquid-cooled battery PACK adopts 52 cells in series. The rated capacity of each single cell is 314Ah, equipped with battery management unit (BMU), explosion-proof valve and fuse. The overall FELIS-PRO-DC261 liquid-cooled industrial and commercial energy storage cabinet is designed with a left-right separated compartment structure.

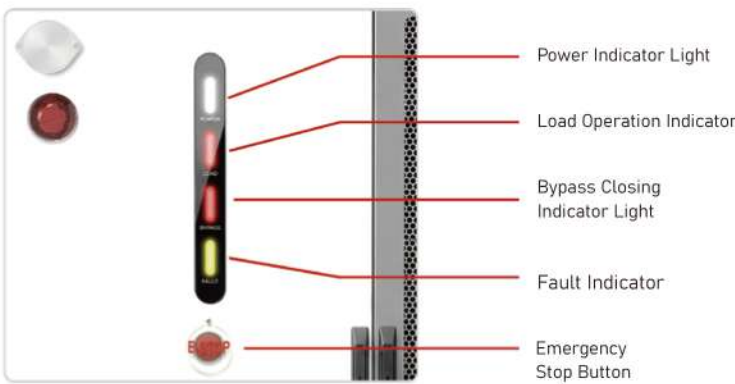
HIGHLIGHTS



APPLICATION SCENARIOS



INDICATOR DESCRIPTION



Fire Protection: Temperature & Smoke Detection, Combustible Gas Detection, Explosion-proof Ventilation, PACK-level Aerosol Fire Suppression, Cabin-level Aerosol Fire Suppression, Water Fire Protection

Energy Storage DC	Parameters
Cell Type	Lithium Iron Phosphate
Combination Configuration	1P260S
Rated Energy of Energy Storage System	261.248kWh
Standard Charge/Discharge Power	≤0.5P
Nominal Voltage	DC 832V
Operating Voltage Range of Battery System	DC 715~936V
Max DC Current of Battery System	203A
High-Voltage Box	DC Fuse + DC Moulded Case Circuit Breaker

PV	
Max PV Open-Circuit Voltage	900V
MPPT Operating Voltage Range	0~900V
MPPT Full-Load Voltage Range	394V~900V
Number of MPPT Channels	2
Max Input Power	63kW*2
Max Input Current	160A
Grid-tied AC	

Rated Power of Energy Storage System	125kW
Max Output Power	138kW
Rated Voltage	AC 400V
Grid Voltage Range	400V (-15% ~ +15%)
Max Current	200A
Rated Frequency	50/60Hz
Power Factor	0.99
Current THD	<2% (at rated power)
Output Wiring Mode	3P+N+PE three-phase four-wire
Overload Capacity	110% continuous overload

Off-Grid AC	
Rated Output Voltage	AC 400V
AC Voltage THD	<3% (linear load)
Rated Frequency	50Hz/60Hz
Rated Output Power	125kW
Max Apparent Power	138kVA
Max Output Current	200A

Load Side (Off-Grid)	
Rated Power	125kVA
Recommended Maximum Load Power	88kVA
Maximum Output Power	138kVA
Maximum Current	200A
Voltage Range	400V (-15%~+15%)
Rated Frequency	50/60Hz
Power Factor	0.99
Total Voltage THD (@ linear load)	<3%
Wiring Connection Mode	3P+N+PE three-phase four-wire

System	
Cooling Method	Liquid Cooling
Protection Class	Whole Cabinet IP54
Operating Ambient Temperature	-20℃~55℃ (Derate above 45℃)
Storage Temperature	Storage Temperature: -20℃~55℃
Operating Relative Humidity	5%~95% (non-condensing)
Allowable Altitude	≤2000m, derated operation for 2000m~4000m
Communication	Communication: RS-485 / CAN / Ethernet
Structural Characteristics	Structural Characteristics
Weight (kg)	≈3000±50kg
Overall Dimension (W×D×H)	1550×1400×2200mm
Topology Structure	Transformerless
Grid/Off-Grid Switching Time	≤20ms
Features & Protections	Supports VSG mode; anti-islanding protection, DC reverse connection protection, insulation detection, DC surge protection, AC surge protection, DC short-circuit protection, AC overcurrent protection, AC short-circuit protection, AC over/undervoltage protection, residual current detection.