COMMERCIAL & TECHNICAL CATALOGUE

BATTERY ENERGY STORAGE (BESS)

Commercial & Industrial Solutions · C&I

LITHTECH TECHNOLOGY

Cabinet and container solutions

Air- and liquid-cooled · LiFePO4

Distribution | Sales | O&M

Spain & Portugal | EU Maritime Sector

www.headup.es



A modular range, from 62 kWh to 5,015 kWh

Energy storage solutions for every scale

One technology platform: integrated LFP batteries, controls, cooling and protection.



AIR-COOLED CABINETS

LT Ultra 60/100-Air

62–105 kWh



AIR-COOLED CABINETS

LT 204/218/225/241-Air

204–241 kWh



LIQUID-COOLED CABINETS

LT 215/232/241/261-Liquid

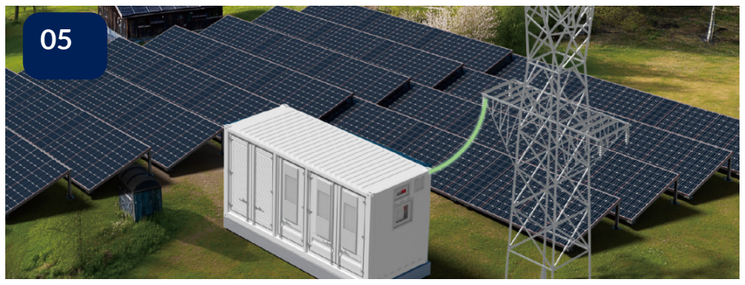
215–261 kWh



20-FOOT CONTAINERS

LTS1331314L · Liquid

3.34–5.015 MWh



20-FOOT CONTAINERS

LT · Air

0.657–1.447 MWh

HEAD UP SERVICES

Distribution, sales and O&M services in Spain and Portugal; business development in the European maritime sector.

Over 30 years of industry experience



LITHTECH EQUIPMENT · LFP BATTERIES (LiFePO4)

LT Ultra 60/100-Air

Integrated solar, battery storage and diesel backup solution. Suitable for small-scale applications and remote monitoring.

62–105
nominal kWh

30–50
AC output kW

6,000
cycles to 70% SOH

KEY FEATURES

- Integration of PV + battery + generator.
- Modular expansion and easy maintenance access.
- Fire protection at module and cabinet level.

PARAMETER	LT Ultra 60-Air	LT Ultra 100-Air
Nominal energy	62 kWh	105 kWh
Max. AC output power	30 kW	50 kW
Nominal voltage	614.4 V	512 V
Nominal capacity	102 Ah	206 Ah
Configuration	1P192S	1P160S
Cell	3.2 V · 102 Ah	3.2 V · 206 Ah
Chemistry	LiFePO4 (LFP)	
Cycle life to 70% SOH	6,000 cycles	
Cooling	Intelligent air cooling	
Communications	RS485 / Ethernet / CAN	
Protection	IP54 system / IP20 module	
Corrosion	C4/C5 (optional)	
Noise	≤65 dB	
Charging temperature	0 to 55 °C	
Discharging temperature	−20 to 55 °C	
Max. altitude	3,000 m	
Dimensions (W×D×H)	700×900×2,250 mm	1,164×1,006×1,980 mm
Approx. weight	982 kg	1,450 kg
Max. DC PV input	39 kW	65 kW
MPPT range	150 to 850 V	
MPPT efficiency	99.9 %	
Declared standards	CE-EMC / CE-LVD / IEC 62619 / UN38.3 / RoHS	
Warranty	5 years; optional 10 years	

AIR-COOLED C&I CABINETS



LITHTECH EQUIPMENT · LFP BATTERIES (LiFePO4)

LT 204/218/225/241-Air

Solutions for self-consumption, peak shaving, energy arbitrage, frequency services and demand optimization.

204–241
nominal kWh

0.5–1C
C-rate

8–9k
cycles to 70% SOH

KEY FEATURES

- Compatible with PCS configurations from multiple manufacturers.
- Modular expansion and easy maintenance access.
- Aerosol-based fire protection design.

PARAMETER	LT218-A	LT204-A	LT241-A	LT225-A
Nominal energy	218.88 kWh	204.288 kWh	241.152 kWh	225.075 kWh
C-rate	1C	1C	0.5C	0.5C
Nominal voltage	768 V	716.8 V	768 V	716.8 V
Nominal capacity	285 Ah	285 Ah	314 Ah	314 Ah
Maximum power	218.88 kW	204.288 kW	120.576 kW	112.537 kW
Configuration	1P16S×15	1P16S×14	1P16S×15	1P16S×14
Battery module	51.2 V (16S)			
Chemistry	LiFePO4 (LFP)			
Cycle life to 70% SOH	9,000 cycles	9,000 cycles	8,000 cycles	8,000 cycles
Cooling	Forced air			
Fire suppression	Aerosol			
Communications	RS485 / Ethernet / CAN			
Protection	IP54; optional IP55			
Corrosion class	C4/C5 optional			
Noise	<70 dB			
Charging temperature	0 to 55 °C			
Discharging temperature	−20 to 60 °C			
Storage temperature	0 to 35 °C			
Max. altitude	3,000 m			
Dimensions (W×D×H)	1,780×1,100 (1,286)×2,100 mm			
Approx. weight	2.8 t	2.7 t	2.9 t	2.8 t
Declared standards	IEC 61000-6-2/-6-4 / 62477-1 / 62619 / UN38.3			
Warranty	5 years; optional 10 years			



LITHTECH EQUIPMENT · LFP BATTERIES (LiFePO4)

LT 215/232/241/261-Liquid

Integrated architecture with precise thermal control, LFP batteries, PCS and management functions for grid services.

215–261
nominal kWh

100–125
rated AC kW

8,000
cycles to 70% SOH

KEY FEATURES

- All-in-one system with liquid cooling.
- Removable modules for maintenance and expansion.
- Industrial communications and remote monitoring.

PARAMETER	LT215-L	LT241-L	LT232-L	LT261-L
Nominal energy	215.04 kWh	241.152 kWh	232.96 kWh	261.248 kWh
Rated AC power	100 kW	115 kW	115 kW	125 kW
Nominal DC voltage	768 V	768 V	832 V	832 V
Cell capacity	280 Ah	314 Ah	280 Ah	314 Ah
Configuration	1P48S×5	1P48S×5	1P52S×5	1P52S×5
C-rate	0.5C			
Chemistry	LiFePO4 (LFP)			
Cycle life to 70% SOH	8,000 cycles			
Nominal AC voltage	400 V			
AC connection	Three-phase, 4-wire			
Frequency	50 / 60 Hz			
Specified efficiency	≥99 %			
Cooling	Liquid			
Communications	CAN / RS485 / Ethernet · IEC 61850 / IEC 104 / WiFi / 4G			
Protection	IP54 system / IP65 module			
Corrosion class	C4/C5 optional			
Noise	<75 dB			
Charging temperature	0 to 60 °C			
Discharging temperature	−30 to 60 °C			
Max. altitude	3,000 m			
Dimensions (L×W×H)	1,300×1,000×2,386 mm	1,300×1,000×2,386 mm	1,000×1,400×2,350 mm	1,000×1,400×2,350 mm
Approx. weight	2.7 t	2.7 t	2.75 t	2.75 t
Declared standards	IEC 61000-6-2/-6-4 / 62477-1 / 62619 / UN3536			
Warranty	5 years; optional 10 years			

20-FOOT CONTAINERS · LIQUID-COOLED



LITHTECH EQUIPMENT · LFP BATTERIES (LiFePO4)

LTS · 3.34 to 5.015 MWh

High-capacity modular container storage for renewable energy plants, industrial applications and grid support.

3.34–5.015
nominal MWh

1.67–2.51
specified MW

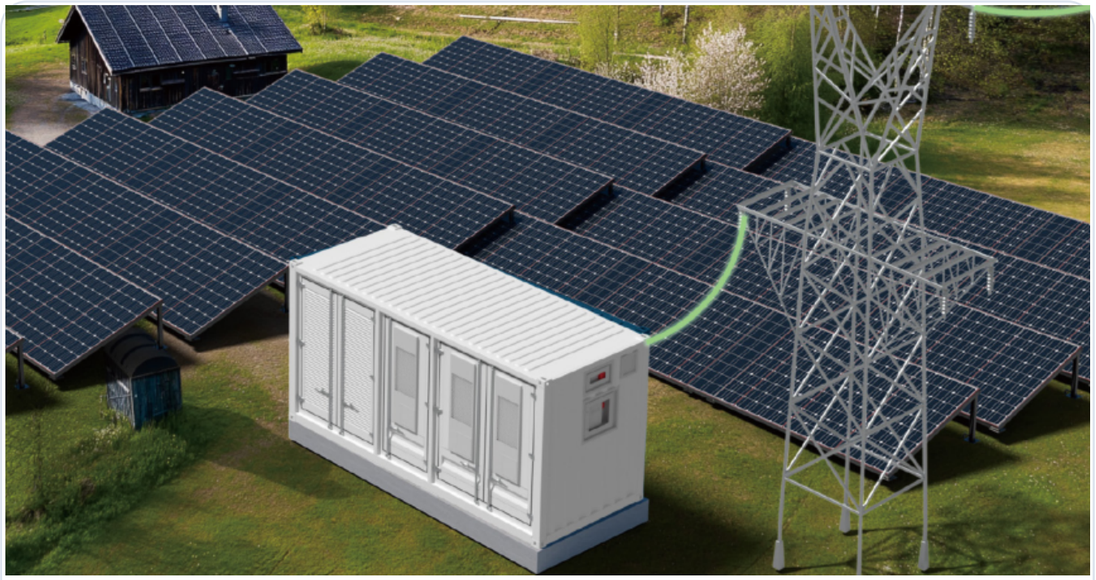
20 ft
container format

KEY FEATURES

- Liquid thermal management and modular architecture.
- Installation at renewable plants and for grid services.
- Site, protection and connection assessments required.

PARAMETER	LTS…-01	LTS…-02	LTS…-03	LTS…-04
Full model number	LTS1331314L-01	LTS1331314L-02	LTS1331314L-03	LTS1331314L-04
Nominal energy	3,340 kWh	3,760 kWh	4,180 kWh	5,015 kWh
Maximum power	1,670 kW	1,880 kW	2,090 kW	2,507.5 kW
C-rate	0.5C			
Nominal DC voltage	1,331.2 V			
Declared capacity	3,140 Ah			
Configuration	8P416S	9P416S	10P416S	12P416S
Cell	3.2 V / 314 Ah			
Chemistry	LiFePO4 (LFP)			
Cycle life to 70% SOH	8,000 cycles			
Declared output voltage	690 V			
Declared AC connection	Three-phase, 3-wire			
Frequency	50 / 60 Hz			
Specified efficiency	≥98.5 %			
Cooling	Liquid			
Communications	RS485 / Ethernet / CAN			
Protection	IP54 system / IP65 module			
Corrosion	C4/C5 optional			
Noise	<80 dB			
Charging temperature	0 to 60 °C			
Discharging temperature	−30 to 60 °C			
Max. altitude	4,000 m			
Dimensions	6,058×2,438×2,896 mm			
Approx. weight	31.1 t	34.3 t	37.5 t	43.9 t
Declared standards	IEC 61000-6-2/-6-4 / 62477-1 / 62619 / UN3536			
Warranty	5 years; optional 10 years			

20-FOOT CONTAINERS · AIR-COOLED



LITHTECH EQUIPMENT · LFP BATTERIES (LiFePO4)

LT · 0.657 to 1.447 MWh

Modular forced-air-cooled units with integrated PCS for flexibility, energy storage and grid-response projects.

0.657–1.447
nominal MWh

500–1,000
rated kW

15–20 t
approx. weights

KEY FEATURES

- Fast-response 1C and 0.5C configurations.
- Integrated PCS with 400 V three-phase AC output.
- Industrial service, self-consumption and power management.

PARAMETER	LT1300-1000K	LT800-750K	LT600-500K	LT1400-750K	LT1200-500K	LT900-500K
Full reference	LT1300-1000K-A	LT800-750K-A	LT600-500K-A	LT1400-750K-A	LT1200-500K-A	LT900-500K-A
Nominal energy	1,313.28 kWh	875.52 kWh	656.64 kWh	1,446.912 kWh	1,205.76 kWh	964.608 kWh
Rated power	1,000 kW	750 kW	500 kW	750 kW	500 kW	500 kW
C-rate	1C	1C	1C	0.5C	0.5C	0.5C
Nominal capacity	1,710 Ah	1,140 Ah	855 Ah	1,884 Ah	1,570 Ah	1,256 Ah
Configuration	6P16S×15	4P16S×15	3P16S×15	6P16S×15	5P16S×15	4P16S×15
Cell	285 Ah	285 Ah	285 Ah	314 Ah	314 Ah	314 Ah
Chemistry	LiFePO4 (LFP)					
Cycle life to 70% SOH	9,000	9,000	9,000	8,000	8,000	8,000 cycles
No. of PCS cabinets	2	2	1	2	1	1
AC output voltage	400 V					
AC connection	Three-phase, 3-wire					
Frequency	50 / 60 Hz					
Cooling	Forced air					
Communications	RS485 / Ethernet / CAN					
Protection	IP54; optional IP55					
Corrosion	C4/C5 optional					
Noise	<65 dB					
Charging temperature	0 to 55 °C					
Discharging temperature	−30 to 60 °C					
Max. altitude	3,000 m					
Dimensions	6,058×2,438×2,896 mm					
Approx. weight	20 t	17 t	15 t	20 t	18 t	17 t
Declared standards	IEC 61000 / IEC 62619 / IEC 62477 / UL 1973, 9540, 9540A (cell) / UN38.3 / CE					
Warranty	5 years; optional 10 years					

BESS Applications

- **Industry & commerce**
  Peak shaving, self-consumption, energy arbitrage and operational continuity.
- **Renewables & grid**
  Solar and wind integration, flexibility and utilization of surplus generation.
- **Microgrids & communities**
  Intelligent EMS/PMS management and distributed energy optimization.
- **Ports, maritime & Oil & Gas**
  Assessment of OPS, BESS-to-SHIP, BESS-to-BESS, swapping and offshore solutions.

HEAD UP Services · Your local partner

Distribution, sales and O&M in Spain and Portugal. Solutions for the European maritime sector: integration engineering, technical support, commissioning and maintenance, subject to the agreed scope of each project.

Contact: comercial@headup.es · +34 986 12 41 63

HEAD UP services

Distribution | Sales | O&M
Spain & Portugal

+34 986 12 41 63
comercial@headup.es
Barrio San Andrés Pontellas, 20
36412 O Porriño (Pontevedra)
Spain

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