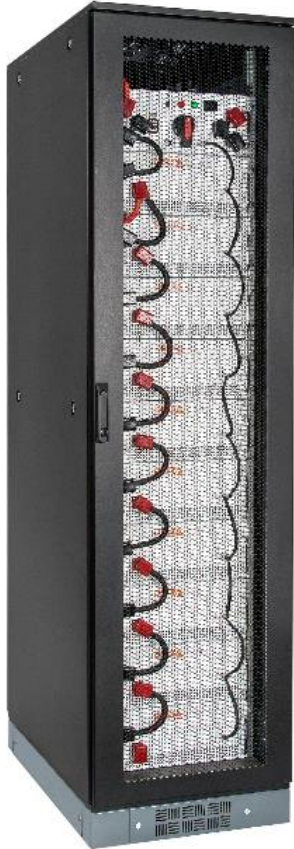


Battery cabinet Asterion Li-Ion Series UDL-TR 512-100

Battery cabinet Asterion Li-Ion Series UDL-TR n lithium-iron-phosphate cells is designed for backup power of industrial equipment with a backup time of more than 30 minutes.



Technical specification

Cell type	LiFePO ₄
Cells configuration in module	160S1P
Rated voltage of battery cabinet	512 V
Rated voltage range	432,0 – 584,0 V
Rated voltage of battery module	51,2 V
Number of cells connected in series in the battery module	16 pcs
Number of battery modules connected in series in the cabinet	10 pcs
Number of battery cabinets connected in parallel	Up to 8 pcs
Rated capacity	100 A*4
Rated discharging current	1C
Maximum discharging current	2C
Rated charging current	50 A
Maximum charging current	50 A
Operating temperature *	From -20 °C to +60 °C
Charging temperature	From 0 °C to +50 °C
Relative humidity	60±25%
Dimensions (W x D x H)	600 × 1000 × 2200 mm
Weight	700 kg
Design life:	
• In cycle mode (at 80% DoD) **	5000 cycles
• In standby mode (80% SoH) **	15 years

* Temperature range for nominal parameters: from +20 °C to +30 °C

** While in compliance with operating parameters

Additional information

Power connection: with and without a center-point (without changing the system hardware configuration)

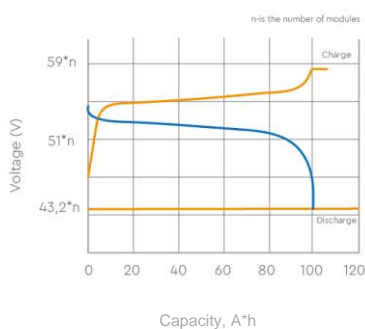
Communication port CAN, RS485 ports (Modbus RTU or Modbus TCP/IP), dry contact

GBMS system for monitoring parallel connected battery cabinets

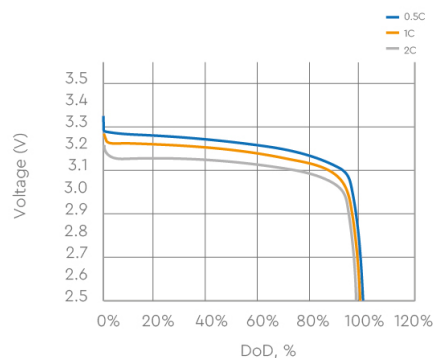
Discharge characteristics

Time, min	30	40	45	50	60	90
Power, kW	100,0	75,5	67,3	60,8	50,9	33,9

Charge/discharge at 25 °C, 0.5C



Discharge diagram at different current, at 25



Number of cycles at 25 °C, DoD 100%

