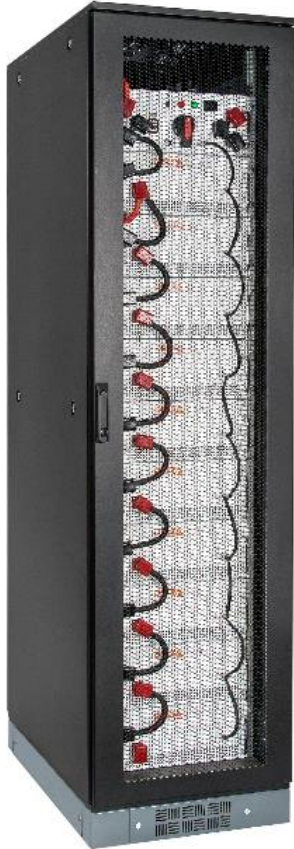


Battery cabinet Asterion Li-Ion Series UDL-TR 461-100

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	144S1P
Rated voltage of battery cabinet	460,8 V
Rated voltage range	388,8 – 525,6 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	9 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	650 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)

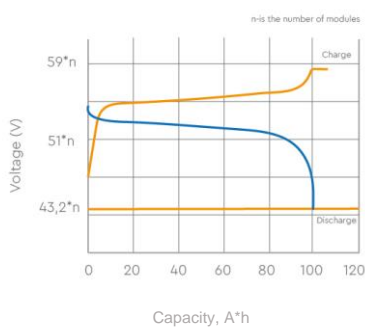
Communication port CAN, RS485 ports (Modbus RTU or Modbus TCP/IP), dry contact

GBMS system for monitoring parallel connected battery cabinets

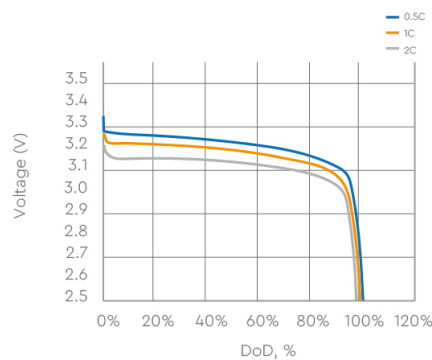
Discharge characteristics

Time, min	30	40	45	50	60	90
Power, kW	90,0	67,9	60,6	54,7	45,8	30,5

Charge/discharge at 25 °C, 0.5C



Discharge diagram at different current, at 25



Number of cycles at 25 °C, DoD 100%

