



CSB PowerBox

Lithium Battery Datasheet

512V Lithium Iron Phosphate Battery Cabinet

Specifications

Battery Chemistry	Lithium Iron Phosphate
Maximum Continuous Discharge Power (kW)	300
Nominal Capacity (Ah)	140
Nominal Energy (kWh)	71.68
Nominal Voltage (V)	512
Maximum Voltage (V)	576
Minimum Voltage (V)	432
Charging Current (A)	3.5-70
Standard Discharge Current (A)	140
Maximum Discharge Current (A)	700
Communication	RS485, CAN, Ethernet, DRY Contact
Display	LCD
Cooling	Natural cooling
Storage Capacity	45%±5%
Operating Environment Temperature (°C)	0-40
Storage Temperature (°C)	-20~60
Altitude (m)	≤3000
Relative Humidity	5%-95%
Protection Level	IP20
Dimension (mm) W*D*H	600*1000*2050 (42U)
Weight (kg)	1100



High-Density Performance - up to 300kW per rack at 512Vdc; compact, scalable power for AI, cloud, and critical UPS loads.

Smart System Control - Level-3 BMS with real-time monitoring, fault detection, and advanced battery protection.

Effortless Maintenance - Modular rack design enables fast battery replacement with no system downtime

Enhanced Safety - Individual thermal protection on each battery module

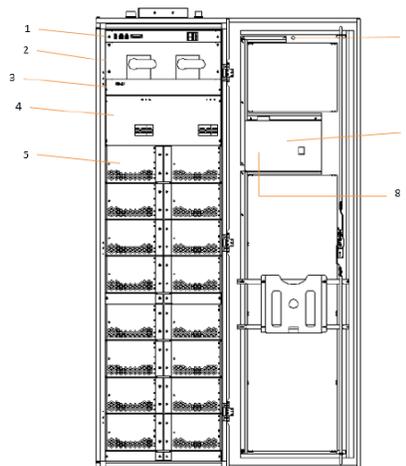


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Maximum Power / 16 packs per Cabinet (full configuration) -- KW					
String / Runtime	5min	10min	15min	30min	60min
1 Cabinet	300	300	250	125	62.5
2 Cabinets	600	600	500	250	125
3 Cabinets	810	810	712	375	187
4 Cabinets	1020	1020	850	475	250
5 Cabinets	1200	1200	1000	594	297
6 Cabinets	1404	1404	1170	712	356
7 Cabinets	1575	1575	1312	787	394
8 Cabinets	1680	1680	1400	900	450

System Components



1-Signal interface

2-Power distribution unit

3-Monitoring unit

4- Main control box

5-battery module

6-Buzzer

7-HMI

8-Emergency stop button