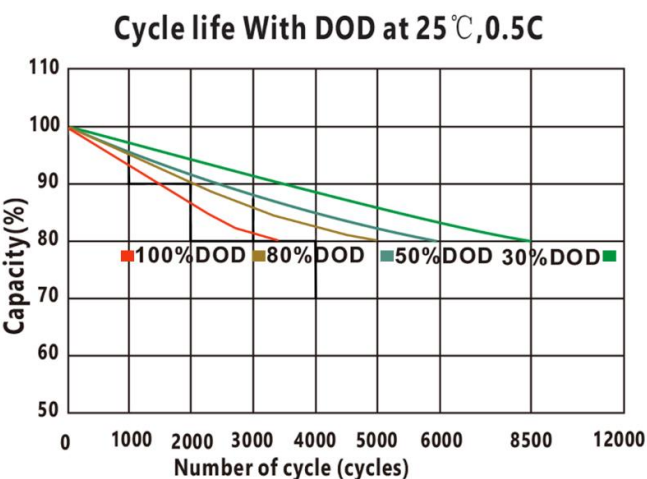
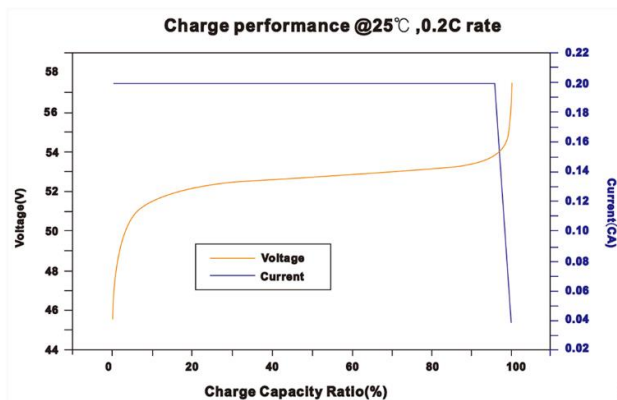
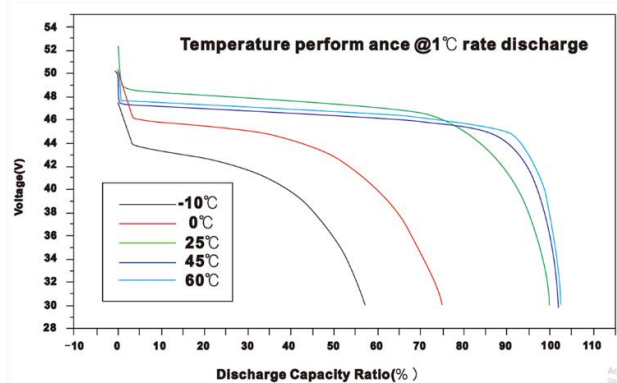
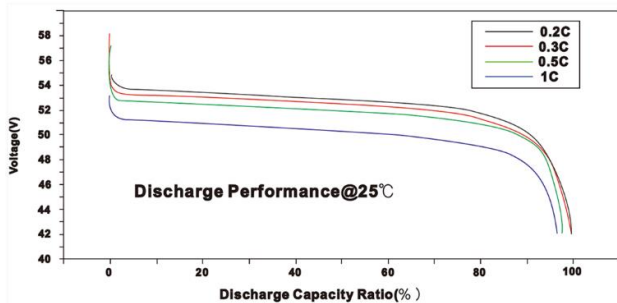


Bull B-LFP48-100E 51.2V 100Ah LiFePO4



ELECTRICAL SPECIFICATIONS

Nominal Voltage	51.2V (16S)
Nominal Capacity	100 AH
Energy	5120 WH
Efficiency	99%
Self Discharge	<1% per Month

DISCHARGE SPECIFICATIONS

Max. Continuous Discharge current	100A
Peak Discharge Current	160A
Standard Discharge current	30A
Voltage at end of Discharge	40-44V

TEMPERATURE SPECIFICATIONS

Discharge Temperature	(-20~60°C)
Charge Temperature	(0~45°C)
Storage Temperature	(-20~55°C)

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	442*520*177MM
Weight	50KG
Case Material	Steel
Cell Type	Prismatic
Chemistry	LiFePO4

CHARGE SPECIFICATIONS

Recommended Charge Current	25A
Maximum Charge Current	50A
Recommended Charge Voltage	57.6-58.4V
Charge mode	CC/CV

COMPLIANCE SPECIFICATIONS

Certifications	CE (battery)
	UN38.3 (battery)
	ROHS2.0 (cells)
Shipping Classification	UN 3480, CLASS 9

BSL Bull B-LFP48 Battery Specification Sheet

The bellow specifications pertain to our Bull Range of high voltage lithium iron phosphate batteries manufactured by BSL

BSL Bull B-LFP48	800/640	1000/800	1200/960	1400/1120	1600/1280	2000/1600	2500/2000
Total Energy Capacity [kWh]	800	1000	1200	1400	1600	2000	2500
Max. Cont. Charge and Discharge Power (typical) ⁽²⁾ [kW]	400	400	600	600	800	1000	1000
Nominal Voltage [V]	512-800 depending on inverter requirements						
Daily DoD Suggested (average) [%]	80						
80% DoD Energy [kWh]	640	800	960	1120	1280	1600	2000
Max DoD allowed	90%DoD						
Design Life – Cycles ⁽³⁾	5500-7000 cycles						
Design Life – Years ⁽⁴⁾	16-20 years						
End of Life Definition [% of as new capacity] ⁽⁵⁾	70%						
Round Trip Efficiency	96-97%						
Total Weight	8T	10T	12T	14T	16T	20T	25T
Height (upright against wall)	2 100mm						
Depth (from wall)	750mm						
Length (width along wall)	3.5m	4.5m	5m	6m	7m	9m	11m
Enclosure Details	Heavy Duty Custom Enclosure in two cabinets per battery positioned against walls (containers) or back to back (buildings). Containers – 6m up to 1200/960 model, 12m up to 2500/2000 model						
External Interface	CAN Bus						
On-board Management	Full battery management system and internal trip protection						
Human Interfaces	State of Charge Display (0 to 100%), Error light, Error Reset Button, Plug for Programming and data access with PC, main breaker						
Protection	Shunt Trip Circuit Breaker sized to suit max current, can be tripped by BMS if critical fault, manual reset. Protection for overcurrent, cell under and over voltage, temperature, weak cell detection and other critical events						
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)						
Form Factor	Large Format heavy duty prismatic cells of 200Ah each and 3,2V nominal voltage, fully sealed with bolt on electrode connections						
Battery Cooling	Natural Convection (heat generation is negligible inside the battery)						
Suitable Ambient Temp [°C]	0°C to +40°C						
Extreme Operating Temp [°C] ⁽⁶⁾	-20°C to +60°C						
Remote Monitoring	Real time data logging and transmission via WiFi to online portal of key battery information (optional)						

- For capacity larger than 2,5MWh these models must be configured with two or more in parallel on the same DC bus or with separate DC bus with inverters linked on the AC bus.
- Output power will vary depending on nominal battery voltage, which is variable based on inverter requirements. Higher power output available on request.
- Warranty is 10 years or 5000 cycles at average 80% DoD, 70% capacity guaranteed by end of warranty.
- Based on one cycle per day. For low duty cycling applications life is 20+ years.
- Continued use of the battery after the capacity has dropped to 70% or below is possible, which extends the service life until the actual usable capacity is too low for the requirements of the system. Capacity degradation continues at a linear rate.
- Charging below 0°C is not permitted. Extended time above 45°C not recommended for optimal battery life.