



EFFORTLESS POWER

**48 / 80 VOLT
LITHIUM-ION BATTERY SYSTEM**



Specifications

J-Series 48-V Lithium-ion Battery

J-Series 80-V Lithium-ion Battery

Technical Data		Size SB	Size MB	Size LB	Size S	Size M	Size L	
1	Nominal capacity	Ah	390 or 520	390 or 520	390 or 520	500	500	500
2	Nominal energy content	Wh	18,432 or 24,576	18,432 or 24,576	18,432 or 24,576	43,200	43,200	43,200
3	Nominal voltage of battery	V	51.2	51.2	51.2	86.4	86.4	86.4
4	Nominal truck voltage	V	48	48	48	80	80	80
5	Cell chemistry		Lithium / iron phosphate	Lithium / iron phosphate	Lithium / iron phosphate	Lithium / iron phosphate	Lithium / iron phosphate	Lithium / iron phosphate
6	Operating temperature ¹⁾	°F	-4°F to 131°F	-4°F to 131°F	-4°F to 131°F	14°F to 131°F	14°F to 131°F	14°F to 131°F
7	Operating temperature for charging ²⁾	°F	32°F to 131°F	32°F to 131°F	32°F to 131°F	32°F to 131°F	32°F to 131°F	32°F to 131°F
8	Protection rating		IP54	IP54	IP54	IP54	IP54	IP54
Dimensions & Weight		Size SB	Size MB	Size LB	Size S	Size M	Size L	
9	Battery dimensions (in)	in	32.7 x 20.5 x 24.7	32.7 x 24.8 x 24.7	32.7 x 29 x 24.7	40.5 x 28 x 30.9	40.5 x 33.7 x 30.7	40.5 x 39.3 x 30.7
10	Battery dimensions (mm)	mm	830 x 522 x 627	830 x 630 x 627	830 x 738 x 627	1,028 x 711 x 784	1,028 x 855 x 784	1,028 x 999 x 784
11	Battery weight (including additional weight)	lb	1,560	1,887	2,233	3,434	4,107	4,790
12	Battery weight (including additional weight)	kg	708	856	1,013	1,558	1,863	2,173
Charge		Size SB	Size MB	Size LB	Size S	Size M	Size L	
13	Charge status display		In truck display	In truck display	In truck display	In truck display	In truck display	In truck display
14	Charge time with external charger SLH090i 48/300	min	80 or 90	80 or 90	80 or 90	105	105	105
15	Opportunity charging with external charger		50% of nominal capacity after 30 or 40 min.	50% of nominal capacity after 30 or 40 min.	50% of nominal capacity after 30 or 40 min.	50% of nominal capacity after 53 min.	50% of nominal capacity after 53 min.	50% of nominal capacity after 53 min.
16	Charge time with external charger SLH090i 48/150	min	160 or 180	160 or 180	160 or 180	200	200	200
17	Opportunity charging with external charger		50% of nominal capacity after 60 or 80 min.	50% of nominal capacity after 60 or 80 min.	50% of nominal capacity after 60 or 80 min.	50% of nominal capacity after 100 min.	50% of nominal capacity after 100 min.	50% of nominal capacity after 100 min.
Trucks		Size SB	Size MB	Size LB	Size S	Size M	Size L	
18	Available trucks		2ET2500	EPC3000 EPC3500 2ETC3000-C3500	2ET3000-4000 EP3000 EP3500 EP4000	2EPC5000 2EPC6000	2EP5000 2EP6000 2EP6500 2EPC7000 2EPC8000 2EPC9000	2EP10000 2EP11000 2EP8000 2EP8500 2EP9000

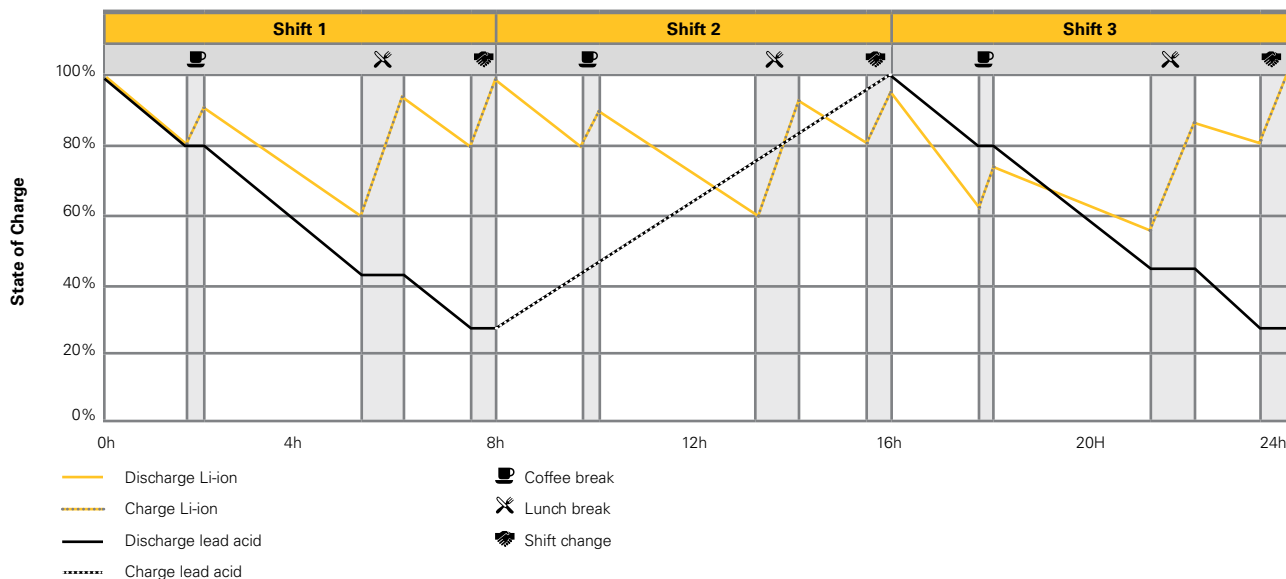
¹⁾ Different temperatures may affect battery performance

²⁾ In terms of battery temperatures

Chargers

Type Of Charger	Input V	Dimensions (H x B x T) in.	Weight lb.	Input Current A
48V	150A	D480	16.3 x 16.9 x 14	82
	200A	D480	20.5 x 16.9 x 14	118
	250A	D480	28.9 x 16.9 x 14	131
	300A	D480	28.9 x 16.9 x 14	146
80V	160A	D480	28.9 x 16.9 x 14	131
	290A	D480	45.5 x 16.9 x 14	207

* For use with 24V – 110Ah Battery Only



ADVANTAGES OF LITHIUM-ION TECHNOLOGY

Out performs lead-acid batteries

- Constant voltage and more power than lead-acid batteries even on a low charge.
- Save up to 20% more energy with regenerative braking and an improved overall efficiency rating.
- Communication between the battery and the charger ensures efficient charging.

No Battery Maintenance

Save time and money by eliminating routine battery maintenance:

- Lithium-ion batteries are maintenance-free and do not emit gas.
- Eliminate watering maintenance, battery servicing, or other infrastructure requirements.
- Changing out batteries for shift changes is no longer necessary.

Long Operating Times

Lithium-ion batteries are great for multi-shift operations:

- With opportunity charging, lithium-ion batteries can run 24 hours a day, 7 days a week without changing batteries.

Energy Efficient

- Lithium-ion batteries can last up to three times longer than traditional energy storage units.
- Extraordinary endurance and consistently higher efficiency rating secure your investment while saving on power costs.
- Each lithium-ion battery includes a 5 year warranty.



Your Cat lift truck dealer can provide additional options and features to specialize your lift truck for your unique application. Operator training and custom financing programs are also available to help find the right fit for your business.

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Some products may be shown with optional equipment.

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