

Lead Acid to Lithium-ion Battery Replacement Guide

Voltage	Lead Acid Model	Lithium-ion Battery	Lead Acid Capacity	Lithium-ion Capacity	Lead Acid Battery Dimensions	Lithium-ion Battery Dimensions
24 V	12-85-5	S24 or S8	170 Ah	105 Ah	24.6 x 6.5 x 22.8 in	S24: 22.9 x 3.9 x 24.6 in S8: 25.6 x 7.7 x 28.9 in
	12-85-7	S24 or S8	255 Ah	105 Ah	24.9 x 8.5 x 22.8 in	S24: 22.9 x 3.9 x 24.6 in S8: 25.6 x 7.7 x 28.9 in
	12-85-9	S24	340 Ah	210 Ah	25.3 x 11.0 x 25.0 in	22.9 x 3.9 x 24.6 in
	12-85-11	M24	510 Ah	420 Ah	31.0 x 13.0 x 24.0 in	30.8 x 13.0 x 21.1 in
	12-85-13	-	510 Ah	-	30.9 x 12.8 x 23.3 in	-
	12-85-15	-	595 Ah	-	35.1 x 12.8 x 23.3 in	-
	12-85-17	M24	680 Ah	420 Ah	38.1 x 13.4 x 22.6 in	30.8 x 13.0 x 21.1 in
	12-85-19	M24	765 Ah	420 Ah	29.6 x 19.5 x 22.6 in	30.8 x 13.0 x 21.1 in
	12-85-21	-	850 Ah	-	32.6 x 19.2 x 22.6 in	-
	12-85-23	-	935 Ah	-	35.6 x 19.2 x 22.6 in	-
	12-90-5	S24	180 Ah	210 Ah	25.3 x 7.8 x 22.6 in	22.9 x 3.9 x 24.6 in
	12-90-7	S24	270 Ah	210 Ah	25.3 x 8.6 x 23.1 in	22.9 x 3.9 x 24.6 in
	12-90-11	-	450 Ah	-	32.6 x 10.8 x 22.6 in	-
	12-90-13	-	540 Ah	-	30.6 x 12.7 x 23.0 in	-
	12-90-15	-	630 Ah	-	35.0 x 12.8 x 22.5 in	-
	12-100-13	M24	600 Ah	420 Ah	30.5 x 13.0 x 26.2 in	30.8 x 13.0 x 21.1 in
	12-125-9	M24	500 Ah	420 Ah	24.5 x 13.5 x 30.5 in	30.8 x 13.0 x 21.1 in
	12-125-11	M24	625 Ah	420 Ah	31.8 x 11.0 x 31.0 in	30.8 x 13.0 x 21.1 in
	12-125-13	-	750 Ah	-	30.5 x 12.8 x 31.0 in	-
12-125-15	-	875 Ah	-	36.5 x 14.0 x 30.5 in	-	
12-125-17	-	1000 Ah	-	38.0 x 13.5 x 30.5 in	-	
12-125-19	-	1200 Ah	-	38.5 x 15.5 x 30.8 in	-	
36 V	18-85-13	-	510 Ah	-	38.2 x 15.3 x 22.6 in	-
	18-85-15	-	595 Ah	-	38.2 x 17.7 x 22.6 in	-
	18-85-17	-	680 Ah	-	38.1 x 22.3 x 22.6 in	-
	18-85-19	-	765 Ah	-	38.1 x 22.3 x 22.6 in	-
	18-85-21	-	850 Ah	-	38.1 x 24.6 x 22.6 in	-
	18-85-23	-	935 Ah	-	38.3 x 26.8 x 23.3 in	-
	18-85-25	-	1020 Ah	-	38.1 x 29.9 x 23.3 in	-
	18-85-27	-	1105 Ah	-	38.5 x 31.3 x 22.6 in	-
	18-85-29	-	1190 Ah	-	38.3 x 33.8 x 22.6 in	-
	18-85-31	X36	1275 Ah	840 Ah	39.1 x 36.6 x 23.3 in	30.0 x 38.6 x 22.5 in
	18-85-33	X36	1360 Ah	840 Ah	39.3 x 38.8 x 22.8 in	30.0 x 38.6 x 22.5 in
	18-90-17	-	720 Ah	-	38.2 x 13.3 x 30.5 in	-
	18-90-19	-	810 Ah	-	35.2 x 25.8 x 22.6 in	-
	18-90-21	-	900 Ah	-	38.2 x 24.3 x 22.6 in	-
	18-90-23	-	990 Ah	-	38.2 x 26.9 x 22.0 in	-
	18-90-25	-	1080 Ah	-	38.2 x 29.2 x 22.6 in	-
	18-90-27	-	1170 Ah	-	38.2 x 31.4 x 22.6 in	-
	18-90-29	-	1260 Ah	-	38.3 x 33.8 x 22.6 in	-
	18-100-17	-	800 Ah	-	38.1 x 20.0 x 25.6 in	-
	18-100-21	-	1000 Ah	-	38.1 x 24.6 x 25.6 in	-
	18-125-11	-	625 Ah	-	38.1 x 13.1 x 30.5 in	-
	18-125-13	-	750 Ah	-	38.0 x 15.3 x 30.5 in	-
	18-125-15	M36	875 Ah	630 Ah	38.1 x 17.6 x 30.5 in	37.9 x 13.0 x 31.1 in
18-125-17	M36	1000 Ah	630 Ah	38.3 x 20.0 x 31.0 in	37.9 x 13.0 x 31.1 in	
18-125-19	-	1170 Ah	-	38.3 x 22.4 x 30.5 in	-	

Voltage	Lead Acid Model	Lithium-ion Battery	Lead Acid Capacity	Lithium-ion Capacity	Lead Acid Battery Dimensions	Lithium-ion Battery Dimensions
48 V	24-85-9	-	340 Ah	-	28.5 x 19.0 x 22.5 in	-
	24-85-11	-	425 Ah	-	31.5 x 24.0 x 22.8 in	-
	24-85-13	L48	510 Ah	420 Ah	38.1 x 20.5 x 22.6 in	33.3 x 20.0 x 22.5 in
	24-85-14	L48	595 Ah	420 Ah	35.0 x 25.5 x 22.6 in	33.3 x 20.0 x 22.5 in
	24-85-15	L48	595 Ah	420 Ah	35.0 x 25.5 x 22.6 in	33.3 x 20.0 x 22.5 in
	24-85-17	L48	680 Ah	420 Ah	38.1 x 26.8 x 22.6 in	33.3 x 20.0 x 22.5 in
	24-85-19	L48	765 Ah	420 Ah	38.1 x 29.5 x 22.6 in	33.3 x 20.0 x 22.5 in
	24-85-21	L48	850 Ah	420 Ah	38.1 x 32.6 x 22.6 in	33.3 x 20.0 x 22.5 in
	24-85-23	X48	935 Ah	630 Ah	38.6 x 35.9 x 22.8 in	30.0 x 38.6 x 22.6 in
	24-85-25	X48	1020 Ah	630 Ah	38.7 x 38.2 x 23.7 in	30.0 x 38.6 x 22.6 in
	24-85-27	X48	1105 Ah	630 Ah	38.3 x 41.8 x 23.6 in	30.0 x 38.6 x 22.6 in
	24-90-7	-	270 Ah	-	32.0 x 15.5 x 23.0 in	-
	24-90-9	-	360 Ah	-	32.6 x 20.4 x 23.4 in	-
	24-90-11	-	450 Ah	-	32.0 x 24.4 x 22.6 in	-
	24-90-13	L48	540 Ah	420 Ah	38.0 x 20.5 x 22.8 in	33.3 x 20.0 x 22.5 in
	24-90-15	L48	630 Ah	420 Ah	40.0 x 23.5 x 22.6 in	33.3 x 20.0 x 22.5 in
	24-90-17	L48	720 Ah	420 Ah	38.2 x 26.6 x 22.0 in	33.3 x 20.0 x 22.5 in
	24-90-19	L48	810 Ah	420 Ah	38.3 x 29.4 x 22.0 in	33.3 x 20.0 x 22.5 in
	24-90-21	-	900 Ah	-	38.2 x 32.6 x 22.0 in	-
	24-125-7	-	375 Ah	-	47.6 x 10.7 x 30.5 in	-
24-125-9	-	500 Ah	-	32.8 x 17.1 x 30.5 in	-	
24-125-11	-	625 Ah	-	47.3 x 16.3 x 30.5 in	-	
24-125-13	L48	750 Ah	420 Ah	38.1 x 20.6 x 30.5 in	30.0 x 38.6 x 22.5 in	
24-125-15	L48	875 Ah	420 Ah	38.4 x 23.5 x 30.8 in	30.0 x 38.6 x 22.5 in	
80 V	40-90-11	X80	450 Ah	420 Ah	40.4 x 33.5 x 22.6 in	30.0 x 38.6 x 22.5 in
	40-125-9	-	500 Ah	-	40.6 x 23.6 x 30.5 in	-
	40-125-11	-	625 Ah	-	40.0 x 33.3 x 30.6 in	-
	40-125-13	GSE	750 Ah	420 Ah	40.3 x 39.2 x 30.3 in	35.3 x 26.3 x 26.0 in
	40-125-15	GSE	875 Ah	630 Ah	43.2 x 25.3 x 30.5 in	35.3 x 19.9 x 26.2 in

Modular Design Philosophy

Flux Power's modular design enables lithium-ion battery packs to meet different OEM requirements with truck adapters. The truck adapters are suited for the different weight and dimensional requirements.

This provides a seamless transition when switching to a lithium-ion battery solution.

Capacity Variation

The capacities in this guide vary for lead acid and lithium-ion batteries. For example, lead acid and lithium-ion batteries may be listed at 400 Ah, however, the lithium-ion battery is more energy dense meaning it can store more energy.

A lithium-ion battery can use 100% of its storage capability while a lead acid battery is limited to 30-50%.