mullinix

LC Series Lead Carbon Battery

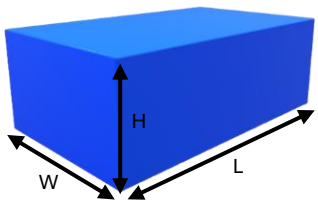
MLX-LC-12V200

Specification

Nominal Voltage	12 V
Nominal Capacity	200 Ah
Design Life	15 years
Terminal	M8
Approx. Weight	61.5 kg
Container Material	ABS
Rated Capacity	200 Ah > 10 Hour Rate (20.0A to 10.8V) 163 Ah > 3 Hour Rate (54.2A to 10.8V) 132 Ah > 1 Hour Rate (132A to 10.5V)
Internal Resistance	Fully charged at 25˚C: 3.30 mΩ
Max. Discharge Current	2400 A (5S)
Operating Temperature	Discharge: -20˚C ~ 60˚C Charge: -20˚C ~ 50˚C Storage: -20˚C ~ 50˚C
Charge Current	Max. 60.0 A; Recom. 20.0-40.0 A
Charge Method (25˚C)	Float Charge: 13.5-13.8V, Recom. 13.8V Equalize Charge: 13.8-14.1V, Recom. 14.1V Cycle Charge: 14.4-15.0V, Recom. 14.7V
Self Discharge	3% per Month at 25˚C

General Features

- ✓ Negative plates with lead-carbon composite
- ✓ Long cycle life with perfect deep cycle ability
- ✓ Excellent charge acceptance
- ✓ Precision sealing technology
- ✓ Optimized instant high-current discharging capability



522(L) x 240(W) x 219(H), in mm

Constant Current Discharge Characteristics Unit: A (25˚C)

FV/Time	5 min	15 min	30 min	1h	2h	3h	5h	8h	10h	20h
1.60V	718	386	234	136	78	56.6	38	25	21	11
1.65V	696	374	230	135	77.6	56	37.6	24.8	20.8	11
1.70V	670	366	226	134	77	55.2	37.2	24.6	20.6	10.9
1.75V	616	354	224	132	75.8	54.6	36.8	24.4	20.4	10.9
1.80V	552	330	216	129	74.4	54.2	35.8	24.2	20	10.8
1.85V	492	294	196	119	70.6	51	34	23.2	19.6	10.6

Constant Power Discharge Characteristics Unit: W/cell (25˚C)

FV/Time	5 min	15 min	30 min	1h	2h	3h	5h	8h	10h	20h
1.60V	1206	680	426	258	147	108	72	48.4	40.4	21.8
1.65V	1160	668	422	256	147	106	71.6	48	40	21.8
1.70V	1154	660	422	254	146	106	71	47.8	39.6	21.6
1.75V	1076	656	420	252	146	105	70.6	47.4	39.2	21.6
1.80V	988	620	410	250	145	105	69.8	47	38.8	21.4
1.85V	882	554	376	232	139	100	66.8	45.6	38.2	21.2

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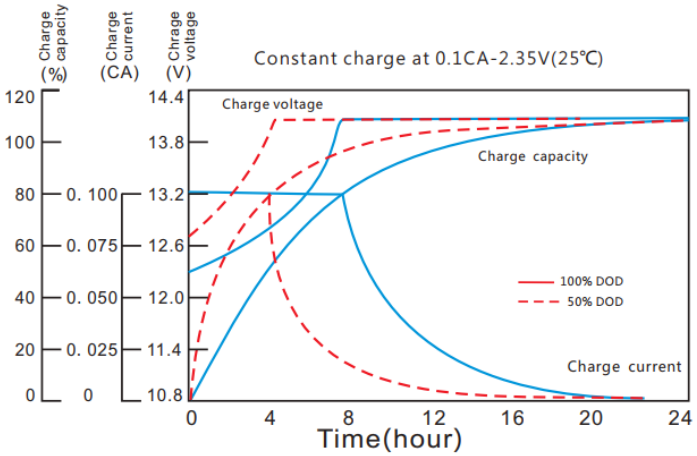
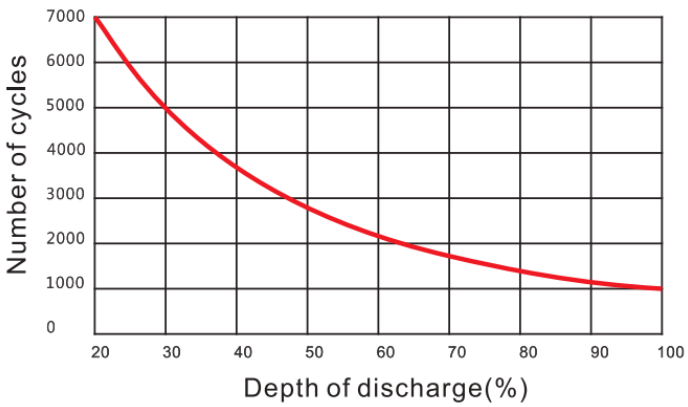
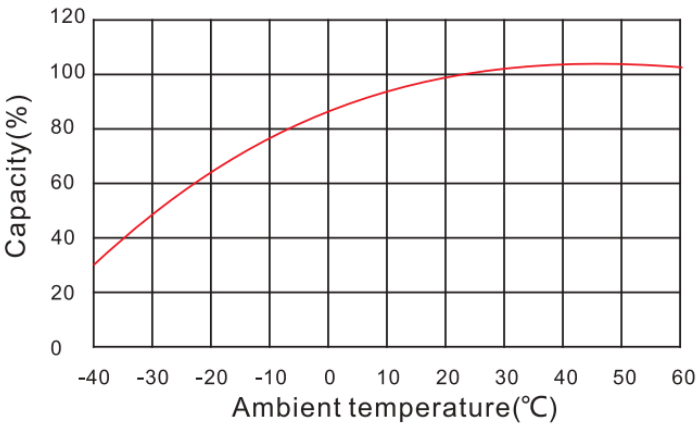
Charging Characteristics



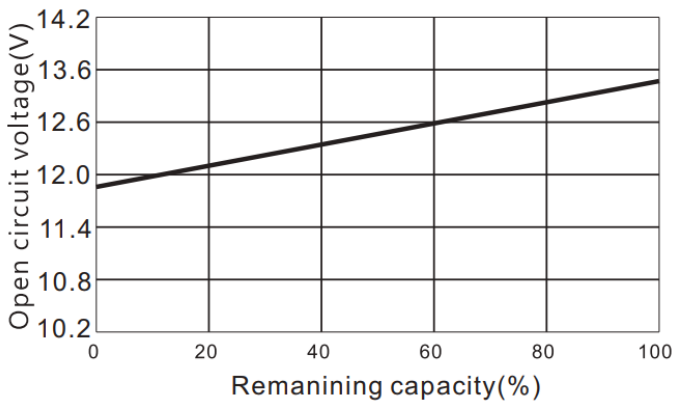
Effect of discharge depth on cycle life



Effect of temperature on capacity



Voc by remaining capacity



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