



ENDURANCE

LEAD CARBON BATTERY

MAXON LEAD CARBON BATTERIES

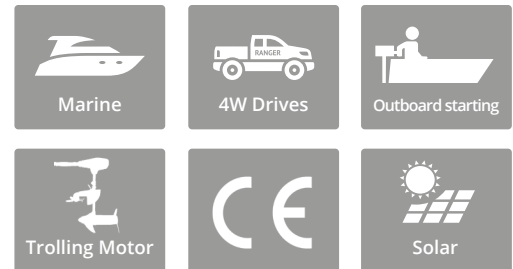
Maxon's Lead Carbon Endurance series is a highly efficient battery that replaces the active material of the negative plate with a lead-carbon composite. This, in turn, improves the acceptance charge and helps in the reduction of sulfation. The Lead Carbon Endurance is a true deep cycle battery that along with being able to be drawn down further, also can be used for infrequent starting such as a marine or 4WD backup application.

FEATURES

- ✓ True deep cycle with starting
- ✓ Ultra high vibration resistant
- ✓ Fully sealed and maintenance free operation
- ✓ Safety valve installation for explosion proof
- ✓ AGM carbon technology
- ✓ Dual purpose applications

APPLICATIONS

- ✓ 4WD dual purpose
- ✓ Camping & caravan
- ✓ Marine deep cycle
- ✓ Marine starting
- ✓ Trolling motors
- ✓ Solar



COMPLIED STANDARDS

CE	ISO9001
IEC	ISO14001
UL	ISO45001

MAXON LEAD CARBON SPECIFICATIONS

Model	Voltage	Rated Capacity @ 25°(Ah)						Dimensions (mm)				Terminal Type	Weight Kg	Internal Resistance Full Charge @25°	
		C100 1.8Vpc@ 25°C	C20 1.8Vpc@ 25°C	C10 1.8Vpc@ 25°C	C5 1.75Vpc@ 25°C	C3 1.75Vpc@ 25°C	CCA	Length	Width	Height	Terminal Height				
Maxon Lead Carbon Batteries															
MXLC12-80	12	n/a	82Ah	75Ah	67Ah	60Ah	610	260	168	211	216	M6	+ -	25.0	≈5.50mΩ
MXLC12-100	12	n/a	99Ah	94Ah	81Ah	72Ah	700	307	176	211	216	M8	+ -	30.5	≈4.50mΩ
MXLC12-135	12	n/a	135Ah	120Ah	103Ah	92Ah	910	331	176	215	220	M8	+ -	32.5	≈3.80mΩ

Design Floating Life @ 25°	10 Years	
Ambient Temperature: Discharge / Charge / Storage	-20° - 55°	
Capacity Affected by Temperature C10 Rating	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	67%
Self Discharge @ 25° per Month	3%	

Charging Constant @ 25%	
Standby Charge Voltage	13.6V - 13.8V
Standby / Float Charge Current	No Limit on Initial Charging Current
Cycle Charge Voltage	14.4V - 14.6V
Cycle Charge Current	C0.1 - C0.25 of Ah Rating

BATTERY DISCHARGE TABLE

AGM	Discharge Constant Current per Cell (Amperes at 25°C)					
	F.V/Time	1h	3h	5h	10h	20h
MXLC12-80	10.2	48.89	21.10	14.10	8.19	4.21
	10.5	47.13	20.03	13.47	7.85	4.16
	10.8	45.07	18.92	12.85	7.50	4.10

	F.V/Time	1h	3h	5h	10h	20h
MXLC12-100	10.2	58.78	25.32	16.93	9.83	5.05
	10.5	56.55	24.03	16.17	9.42	4.99
	10.8	54.08	22.70	15.42	9.30	4.95

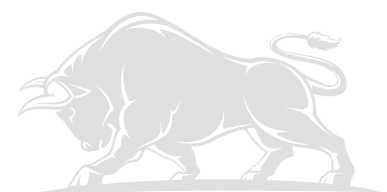
	F.V/Time	1h	3h	5h	10h	20h
MXLC12-135	10.2	75.10	32.35	21.63	12.63	6.85
	10.5	72.26	30.71	20.66	12.21	6.81
	10.8	69.11	29.01	19.70	12.00	6.75

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.



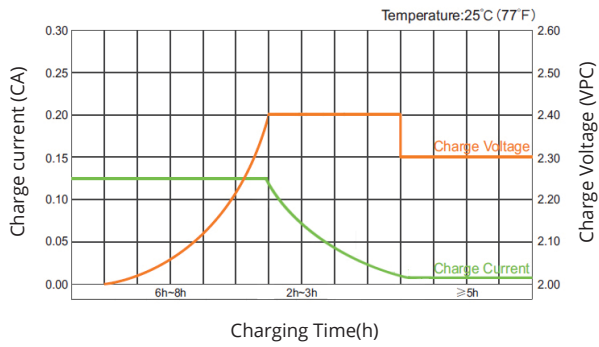
BENEFITS

- ✓ Maxon's "Lead Carbon Technology for improved performance
- ✓ Improve cycle life
- ✓ Maintenance free, fully sealed
- ✓ Resistant to heavy vibration
- ✓ Can be discharged deep than standard Lead Acid Batteries
- ✓ Up to 2 Years Warranty
- ✓ Excellent for energy storage
- ✓ Recycleable
- ✓ Green Energy

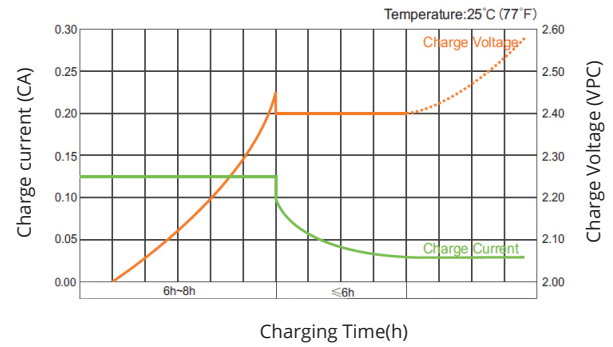


PERFORMANCE CHARACTERISTICS

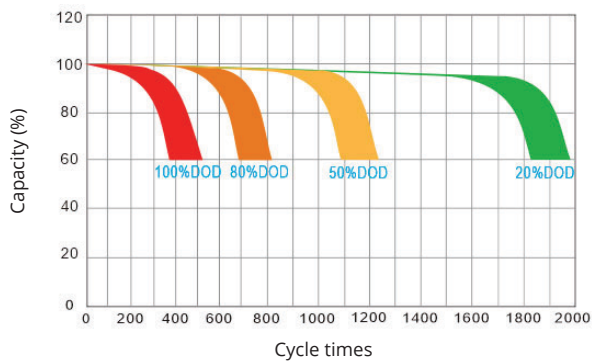
Voltage Regulated Charger - IUU



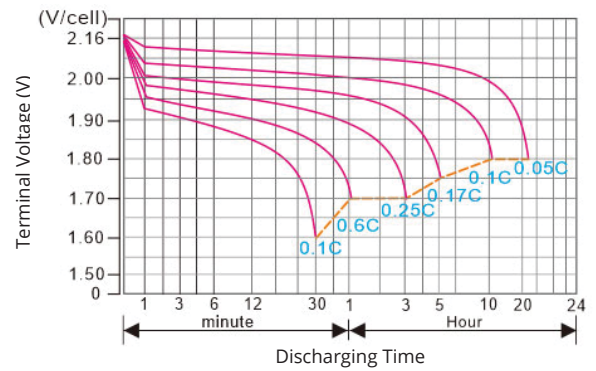
Constant Current Charger - IUI



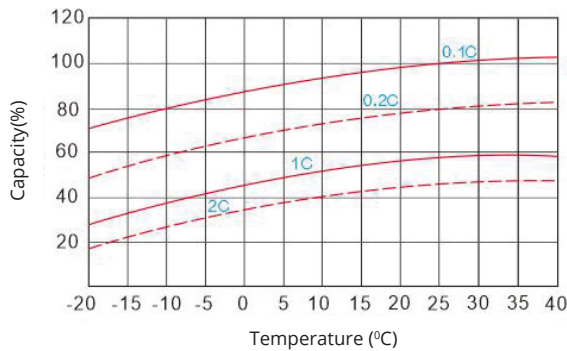
Cycle Life in Relation to Depth of Discharge



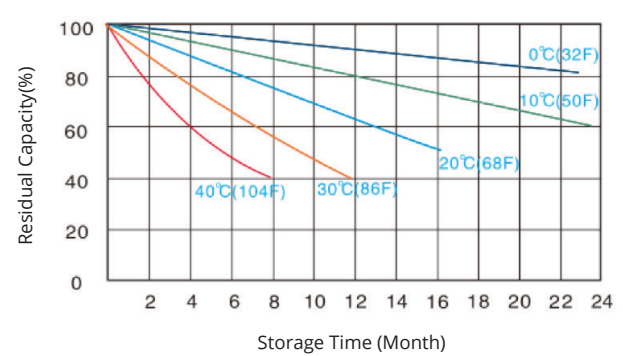
Discharge Characteristic (25°C/77°F)



Capacity Curve At Different Temperature



Self Discharge Characteristics



BATTERY CONSTRUCTION

Component	Positive plate	Negative	Container & Cover	Safety valve	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid with Carbon Additive Paste	ABS	Flame Si-Rubber	Advanced AGM separator	Dilute high purity sulfuric acid	Two layers epoxy resin seal