



MAXON[®]
BATTERIES

MXEG12-240

The Endurance Series



SPECIFICATIONS

Nominal Voltage	12V	
Design Floating Life @ 25°C	15 Years	
Capacity @ 25°C	100 hour rate (2.45A)	245Ah
	20 hour rate (10.46A)	209Ah
	10 hour rate (20.18Ah)	202Ah
	5 hour rate (34.30A)	172Ah
	3 hour rate (10.10A)	150Ah
Internal Resistance	Full Charged Battery @ 25°C	≈2.70mΩ
Ambient Temperature	Discharge	20° - 55°
	Charge	20° - 55°
	Storage	20° - 55°
Capacity affected by Temperature (10 hour rate)	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	67%
Self-Discharge @ 25°C per Month	3%	
Charge (Constant Voltage) @ 25°C	Standby Use	Initial Charging Current Less than 42.0A Voltage 13.6-13.8V
	Cycle Use	Initial Charging Current Less than 42.0A Voltage 14.4-14.9V



12V
Voltage

240Ah
Capacity

Gel
Technology

Deep
Cycle

The Maxon Endurance Series is a Gel AGM Hybrid battery. It uses a thick plate design with advanced AGM separators and a newly developed silicone gel electrolyte imported from Germany. This makes them an ultra-high-performance battery.

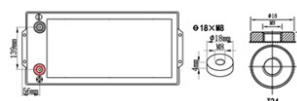
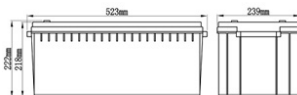
They have the ability to be discharged deeper with twice the cycle life of standard AGM batteries, giving them a more reliable performance under an extreme temperature range (-20°C to 55°C). They are highly suited to Mobility, 4WD, Solar, Marine and standby applications.

GENERAL FEATURES

- Long life and higher stability under high temperature
- High cycle ability 2,200 cycles @ 30% DOD
- Integrated design to ensure the best in uniformity and reliability
- Operates in high temperature range -40°C~60°C
- Extreme Vibration Resistant
- Advanced AGM Separators

DIMENSIONS & WEIGHT

Length (mm)	523
Width (mm)	239
Height (mm)	215
Total Terminal Height (mm)	220
Weight (kg)	64.5



APPLICATIONS

- Caravan, Camper Vans and 4WD
- Mobility & Wheel Chairs
- Marine
- Golf Trolleys
- Solar Systems
- Standby Systems



COMPLIED STANDARDS

IEC 60896-21/22	JIS C8704
IEC61427	BS6290 part4
GB/T 19638	CE/ISO

BATTERY DISCHARGE TABLE

Discharge Constant Current per Cell (Amperes at 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	5h	8h	10h	20h	45h	100h
10.20	630	480	362	192	178	125	98.6	82.6	51.8	36.0	25.58	20.90	10.70	4.75	2.49
10.50	560	440	338	184	170	120	94.8	79.6	50.1	34.3	24.18	20.60	10.60	4.73	2.47
10.80	520	400	316	178	162	115	90.9	76.5	48.3	32.8	22.98	20.18	10.46	4.70	2.45

Discharge Constant Power per Cell (Watts at 25°C)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	5h	8h	10h	20h	45h	100h
10.20	6260	5300	3815	2396	1800	1564	1141	858	640	413	306	260	136	49.36	25.82
10.50	6020	4500	3424	2341	1760	1540	1123	830	619	400	302	252	132	49.15	25.64
10.80	5600	4200	3268	2290	1700	1470	1072	802	598	386	298	240	129	48.84	25.42

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.

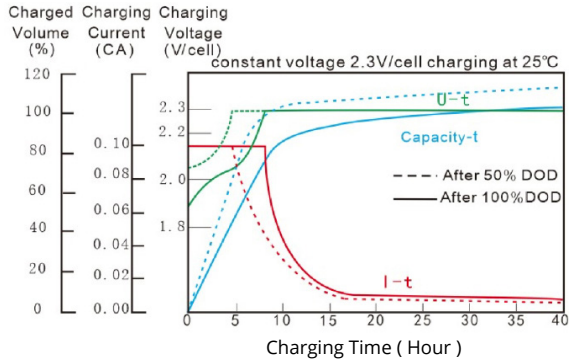


BENEFITS

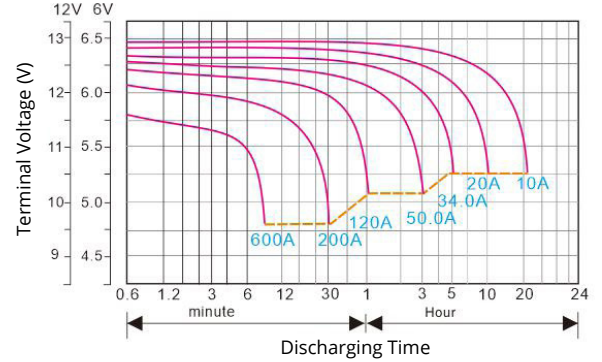
- ✓ Ultra high performance Gel Hybrid
- ✓ Designed for deeper discharge
- ✓ High Cycling up to 2,200 cycles @ 30% DOD
- ✓ Operates in high temperature range -20°C~55°C
- ✓ Excellent for energy storage
- ✓ Fully sealed, allows for safe operation in any position
- ✓ Impact & fire resistant ABS case
- ✓ Up to 3 years replacement warranty
- ✓ Resistant to heavy vibrations
- ✓ Low self discharge
- ✓ Relief Valve with flame integrated arrestors
- ✓ Japanese Technology

PERFORMANCE CHARACTERISTICS

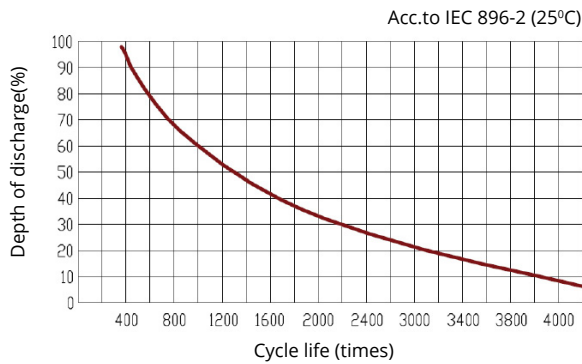
Charge Characteristics (25°C/77°F)



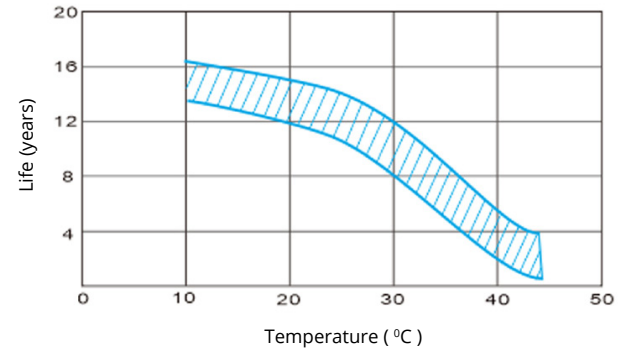
Discharge Characteristic (25°C/77°F)



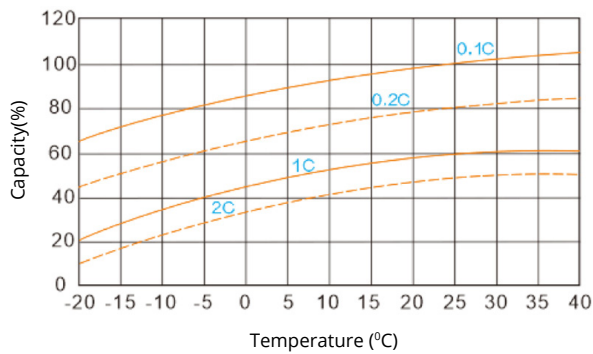
Charge Characteristics (25°C/77°F)



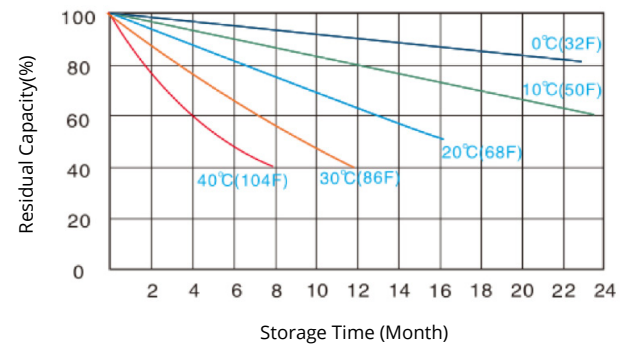
Temperature vs Float Life



Capacity Curve At Different Temperature



Self Discharge Characteristics



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Thick high Sn low Ca grid with special paste	Balanced Pb-Ca grid	Fire resistance ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Advanced AGM Separator	Silicon Gel import from Germany	Two layers epoxy resin seal