



**MAXON**<sup>®</sup>  
BATTERIES

**MXG2-520**

**Gel Deep Cycle Battery**

### SPECIFICATIONS

Nominal Voltage	2V(Single Cell)	
Design Floating Life @ 25°C	12 Years	
Nominal Capacity @ 25°C(100 hour rate @ 5.2A,1.8V)	520Ah	
Capacity @ 25°C	20 hour rate (21.2A,1.8V)	424Ah
	10 hour rate (40A,1.8V)	400Ah
	5 hour rate (71A,1.75V)	355Ah
Internal Resistance	Full Charged Battery @ 25°C	≤0.39mΩ
Ambient Temperature	Discharge	-20°C~60°C
	Charge	-10°C~60°C
	Storage	-20°C~60°C
Max.Discharge Current @ 25°C	800A(5s)	
Capacity affected by Temperature (10 hour rate )	40°C	102%
	25°C	100%
	0°C	90%
	-15°C	70%
Self-Discharge @ 25°C per Month	3%	
Charge (Constant Voltage) @ 25°C	Standby Use	Initial Charging Current Less than 60A Voltage 2.23-2.27V
	Cycle Use	Initial Charging Current Less than 60A Voltage 2.33-2.37V



**2V**  
Voltage

**520Ah**  
Capacity

**Gel**  
Technology

**Deep**  
Cycle

The Maxon MXG 2 Volt range of solar batteries are a fully sealed, leak proof Gel Hybrid Battery which have been specifically designed for off grid solar & wind powered systems. By adopting thicker grids, high purity 99.99% lead and patented Silicon Gel electrolyte they offer excellent recovery performance after deep discharge under frequent cyclic discharge use, and can deliver up to 2,500 cycles @30% DOD. Suitable all solar and green energy systems.

### GENERAL FEATURES

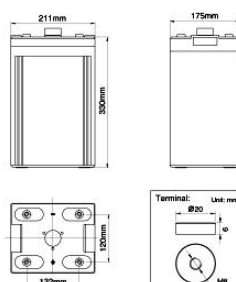
- Hi performance Gel hybrid battery
- High cycle rate
- Fully sealed, leak proof
- Absorbed matt separators
- High raw material – ensuring low discharge rate
- Flame retardant ABS plastic case

### DIMENSIONS & WEIGHT

Length(mm)	211
Width(mm)	175
Height(mm)	330
Total Height(mm)	366
Weight(kg)	26.5

### APPLICATIONS

- Off grid systems
- Green energy systems
- Solar and wind powered systems



Marine



Solar



4W Drives



Caravans



Standby



UPS

**3-Yr**  
Warranty



CERTIFIED  
ISO 9001  
ISO 14001  
PRODUCER

### 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	3h	5h	8h	10h	20h	100h
1.60V	1118	722	598	396	295	242	110	75	49	44.0	23.3	6.8
1.65V	1097	708	588	389	289	238	108	73	48	43.2	22.9	6.4
1.70V	1077	695	577	382	284	233	106	72	47	42.4	22.5	6.0
1.75V	1057	682	566	374	279	229	104	71	47	41.6	22.0	5.6
1.80V	1016	656	544	360	268	220	100	68	45	40.0	21.2	5.2

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

F.V/Time	5min	10min	15min	30min	45min	1h	3h	5h	8h	10h	20h	100h
1.60V	2151	1389	1152	762	567	466	212	144	95	84.7	44.9	10.0
1.65V	2112	1364	1131	748	557	457	208	141	93	83.2	44.1	9.6
1.70V	2073	1339	1110	735	547	449	204	139	91	81.6	43.3	9.0
1.75V	2034	1313	1089	721	537	440	200	136	90	80.1	42.4	8.6
1.80V	1956	1263	1047	693	516	424	193	131	86	77.0	40.8	8.2

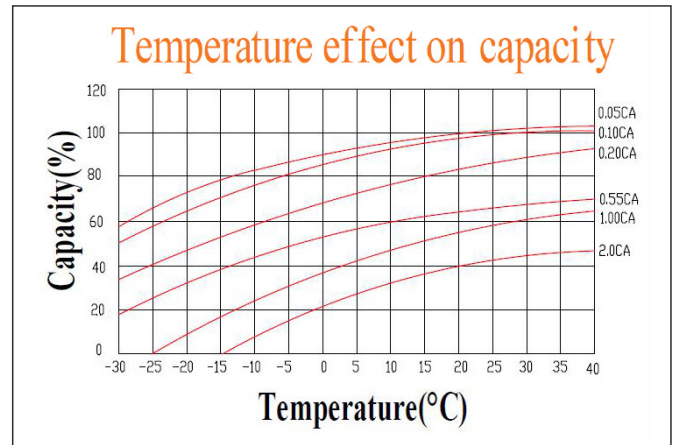
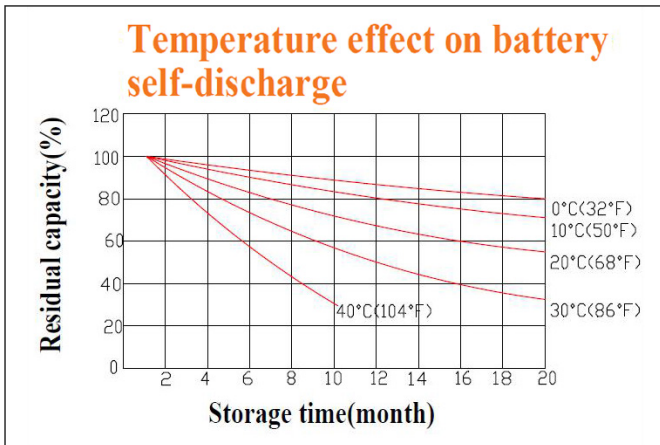
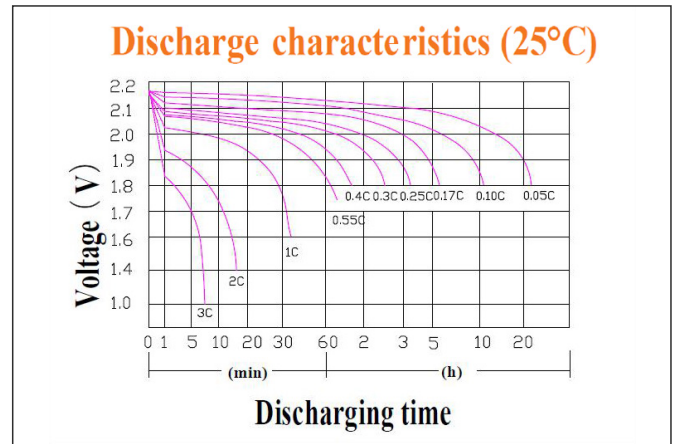
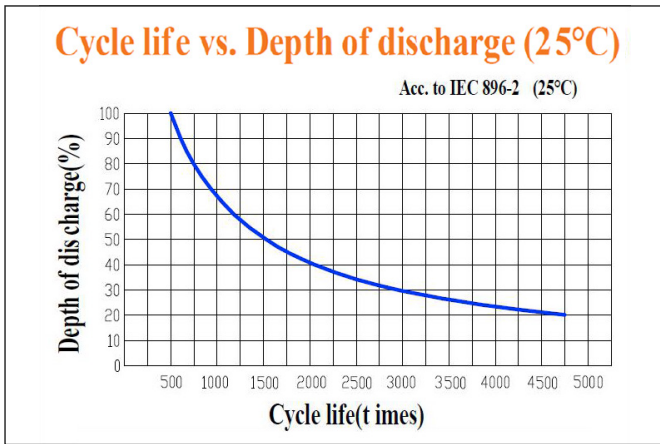
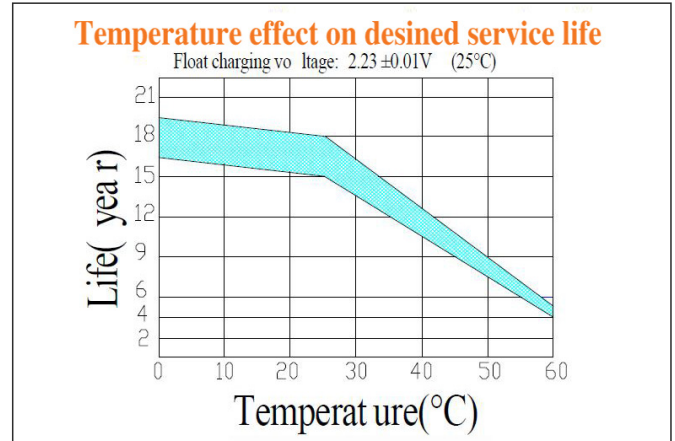
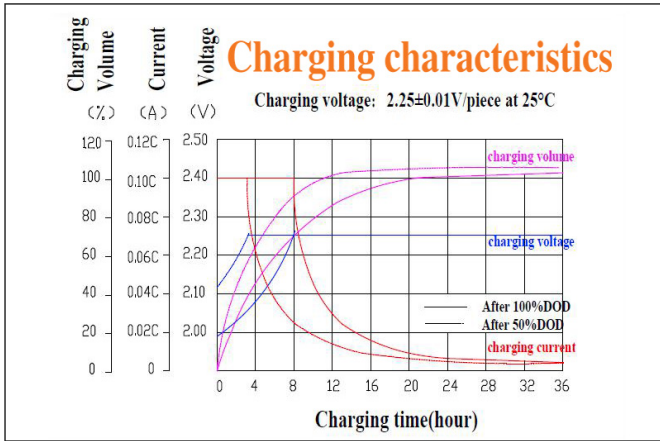
**Note:** The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.



## BENEFITS

- ✓ High Performance Gel Hybrid
- ✓ High Cycling 2,500 cycles @ 30% DOD
- ✓ Excellent for energy storage
- ✓ Low self discharge
- ✓ 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
- ✓ Up to 36 Months Warranty

## PERFORMANCE 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 for improved recombination efficiency	ABS (UL94-V0)	Flame Si-Rubber and aging resistance	Female Copper Insert M8	Fiberglass	Silicon Gel	Two layers epoxy resin seal