



MAXON[®]
BATTERIES

MXG2-650

Gel Deep Cycle Battery



SPECIFICATIONS

Nominal Voltage		2V (Single Cell)
Design Floating Life @ 25°C		12 Years
Nominal Capacity @ 25°C (100 hour rate @ 6.5A, 1.8V)		650 Ah
Rated Capacity	20 hour rate (26.5A, 1.8V)	530 Ah
	10 hour rate (50A, 1.8V)	500 Ah
	5 hour rate (88A, 1.75V)	440 Ah
Internal Resistance Full Charged Battery @ 25°C		≤0.6mΩ
Ambient Temperature	Discharge	-15°C~50°C
	Charge	0°C~40°C
	Storage	-15°C~40°C
Capacity affected by Temperature (10 hour rate)	40°C	103%
	25°C	100%
	0°C	86%
Self-Discharge @ 25°C per Month		3%
Charge (Constant Voltage) @ 25°C	Standby Use	Initial Charging Current Less than 150A Voltage 2.25V~2.3V
	Cycle Use	Initial Charging Current Less than 150A Voltage 2.4V~2.5V



- 2V
Voltage
- 650Ah
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

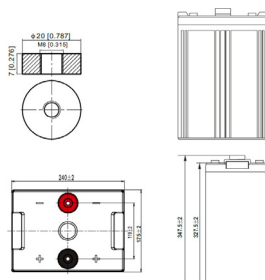
- Hi performance Gel hybrid battery
- High cycle rate
- High cycle rate Hi performance Gel hybrid battery High cycle rate
- Fully sealed, leak proof
- Absorbed matt separators
- Flame retardant ABS plastic case


DIMENSIONS & WEIGHT


Length (mm)	240
Width (mm)	175
Height (mm)	327
Total Height (mm)	350
Weight (kg)	30.5


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	2h	3h	5h	8h	10h	20h	100h
1.60V	1397	902	748	495	369	303	193	138	94	62	55.0	29.2	8.6
1.65V	1372	886	734	486	362	297	189	135	92	60	54.0	28.6	8.0
1.70V	1346	869	721	477	355	292	186	133	90	59	53.0	28.1	7.5
1.75V	1321	853	707	468	348	286	182	130	88	58	52.0	27.6	7.0
1.80V	1270	820	680	450	335	275	175	125	85	56	50.0	26.5	6.5

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

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h	100h
1.60V	2689	1736	1440	953	709	582	371	265	180	119	105.9	56.1	14.2
1.65V	2640	1705	1414	936	696	572	364	260	177	116	104.0	55.1	13.2
1.70V	2591	1673	1388	918	684	561	357	255	173	114	102.0	54.1	12.2
1.75V	2543	1642	1361	901	671	551	350	250	170	112	100.1	53.1	11.2
1.80V	2445	1579	1309	866	645	529	337	241	164	108	96.3	51.0	10.2

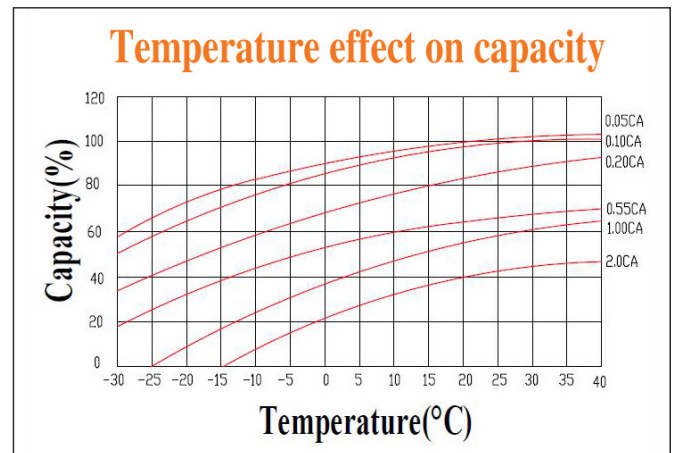
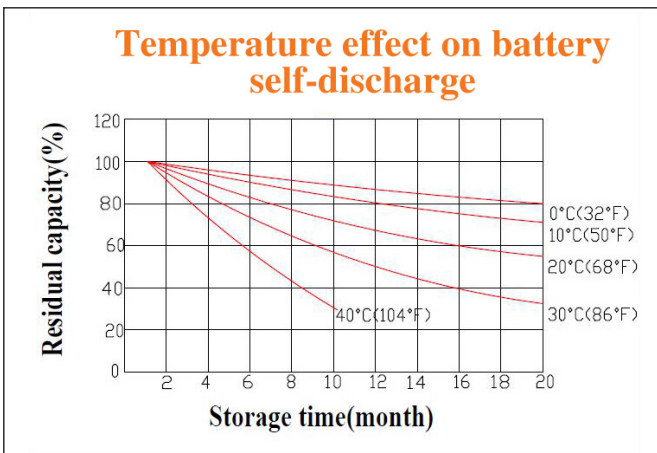
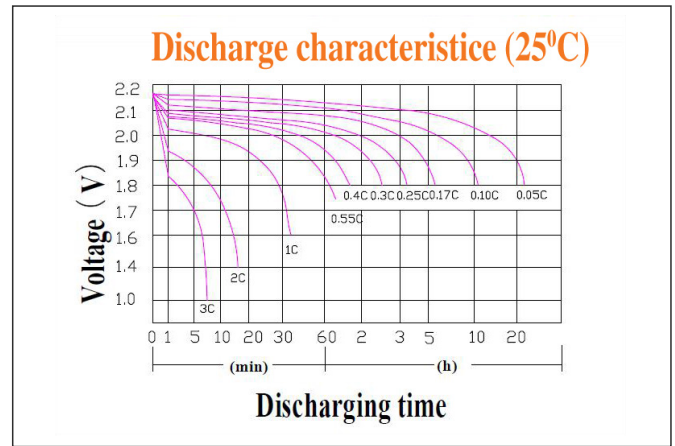
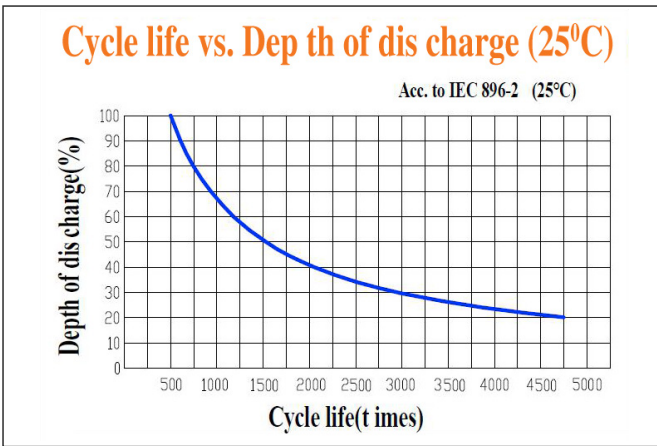
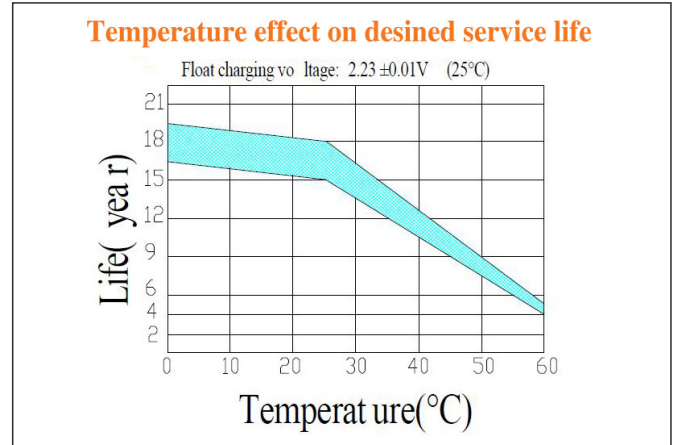
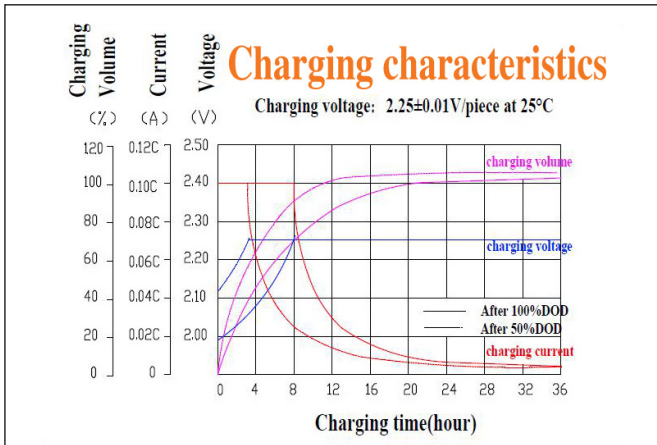
Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice.



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	F2	Advanced AGM separator for high pressure cell design	Dilute high purity sulfuric acid	Two layers epoxy resin seal