



GEL VALVE REGULATED RECHARGEABLE BATTERY



MODEL: G2-800(2V 800AH)

SOLAR BATTERY

**LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA,
ASSEMBLED IN CHINA**

www.connectinglegacy.com

1. PRODUCT DIMENSIONS



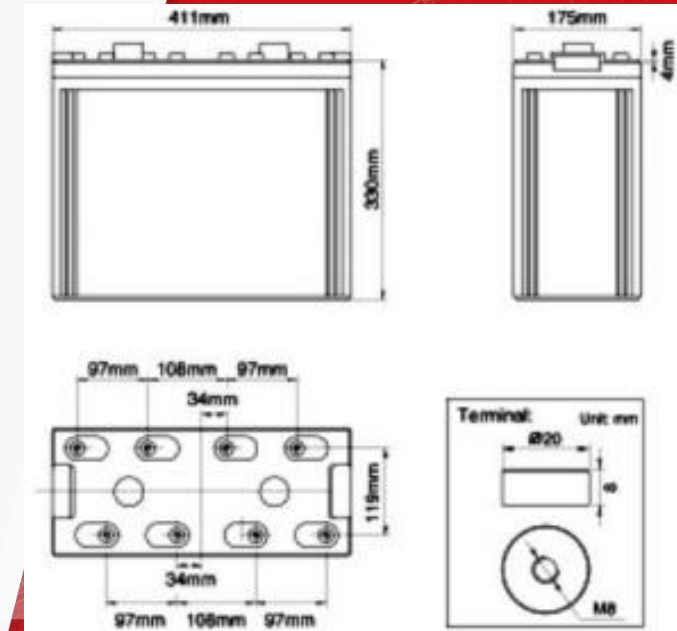
G2-800(2V 800AH)

BATTERY DIMENSION (MM)	LENGTH	411
	WIDTH	175
	HEIGHT	330
	TOTAL HEIGHT	365
BOX DIMENSION (MM)	LENGTH	425
	WIDTH	189
	HEIGHT	422
QUANTITY PER BOX		1 PC
N.W PER CELL (KG) ±800g		51.0
N.W PER BOX (KG)		51.0
G.W PER BOX (KG)		52.0

2.PRODUCT CHARACTERISTICS

G2-800(2V 800AH)

NOMINAL VOLTAGE		2V
NOMINAL CAPACITY (10 HOUR RATE)		800AH
CAPACITY @25°C (77°F)	20 HOUR RATE(42.4A)	848.0AH
	5 HOUR RATE(141.4A)	707.0AH
	1 HOUR RATE(440.0A)	440.0AH
CYCLE LIFE(@25°C)	100%DOD	500 TIMES
	50%DOD	1000 TIMES
	30%DOD	1680 TIMES
DESIGN LIFE	15 YEARS	
SELF-DISCHARGE(@25°C)	< 3%/MONTH	
INTERNAL RESISTANCE	FULL CHARGED BATTERY 25°C ≤0.26mΩ	
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 120A VOLTAGE 2.23-2.27V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 120A VOLTAGE 2.33-2.37V




TERMINAL: M8

3. DISCHARGE CONSTANT CURRENT PER CELL


F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	2235	1443	1197	792	590	440	343	220.0	149.6	98.6	88.0	46.6
1.65V	2195	1417	1175	778	579	432	337	216.0	146.9	96.8	86.4	45.8
1.70V	2154	1391	1153	763	568	424	331	212.0	144.2	95.0	84.8	44.9
1.75V	2113	1364	1132	749	557	416	324	208.0	141.4	93.2	83.2	44.1
1.80V	2032	1312	1088	720	536	400	312	200.0	136.0	89.6	80.0	42.4

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	4303	2778	2304	1525	1135	847	661	423.5	288.0	198.7	169.4	89.8
1.65V	4225	2738	2262	1497	1114	832	649	415.8	282.7	186.3	166.3	88.1
1.70V	4146	2677	2220	1469	1094	816	637	408.1	277.5	182.8	163.2	86.5
1.75V	4068	2627	2178	1441	1073	801	625	400.4	272.3	179.4	160.2	84.9
1.80V	3912	2526	2094	1386	1032	770	601	385.0	261.8	172.5	154.0	81.6

COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SATETY VALVE	TERMINAL	SEPERATOR	ELECTROLYTE
RAW MATERIAL	LEAD DIOXIDE	LEAD	ABS	ABS	SI-RUBBER	COPPER	FIBERGLASS	GEL



**Amperes at
(77°F/25°C)**

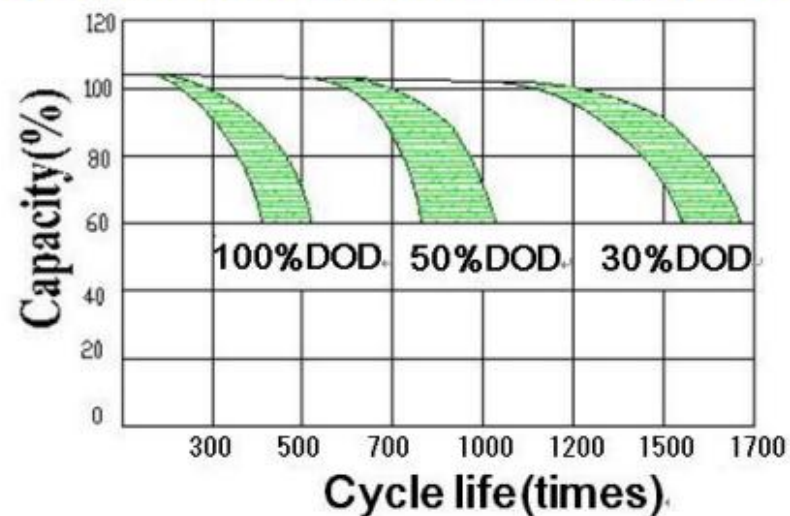


**Watts at
(77°F/25°C)**

**Battery
Construction**

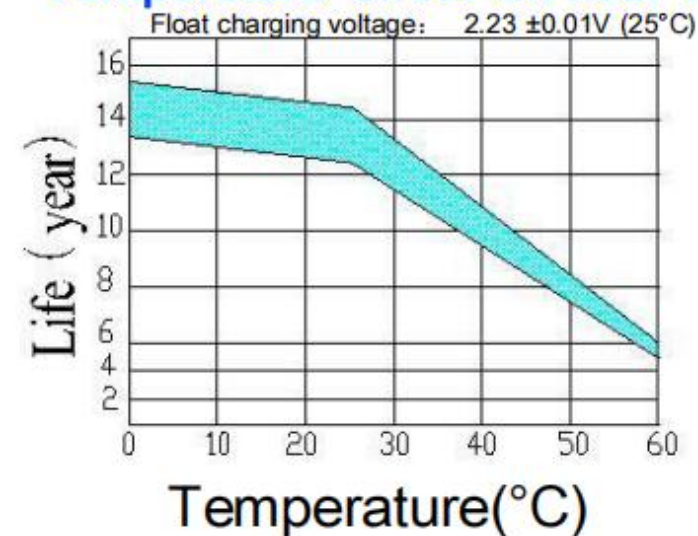
4. PERFORMANCE CHARACTERISTICS

Cycle life vs. Depth of discharge (25°C)



**CYCLE LIFE: 100%DOD 500TIMES
(@25°C) 50%DOD 1000TIMES
30%DOD 1680TIMES**

Temperature effect on float life



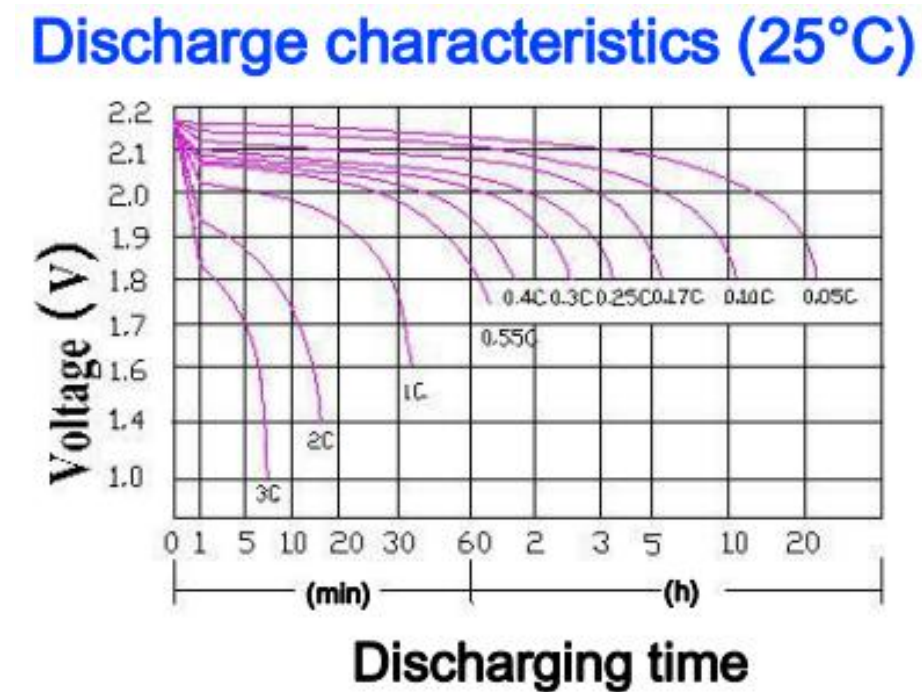
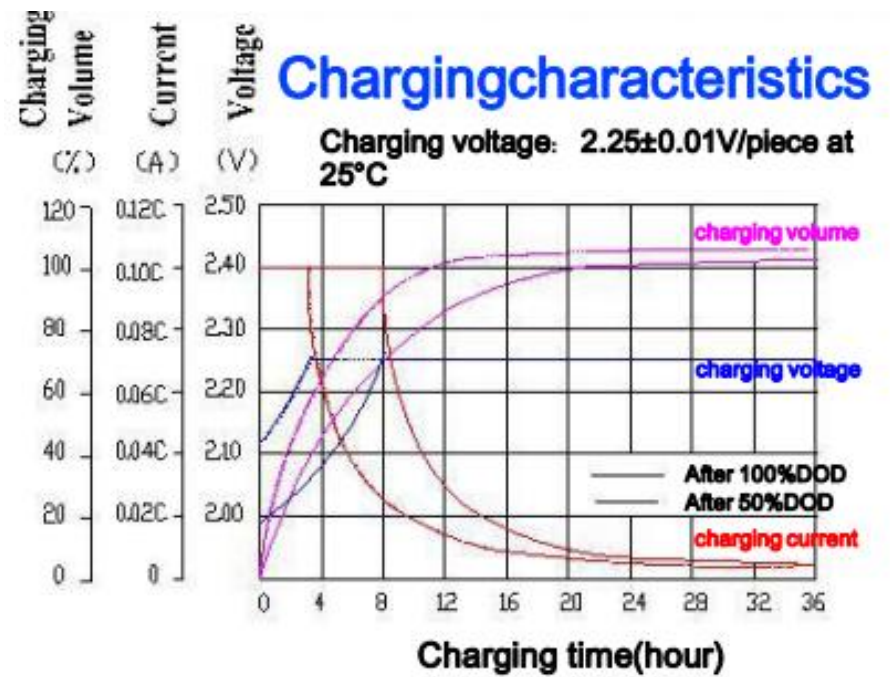
DESIGN LIFE: 15 YEARS

WARRANTY: 4 YEARS

Note: 1) The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values.
2) Cell and battery designs/specifications are subject to modification without notice.

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5. CHARGE AND DISCHARGE CHARACTERISTICS



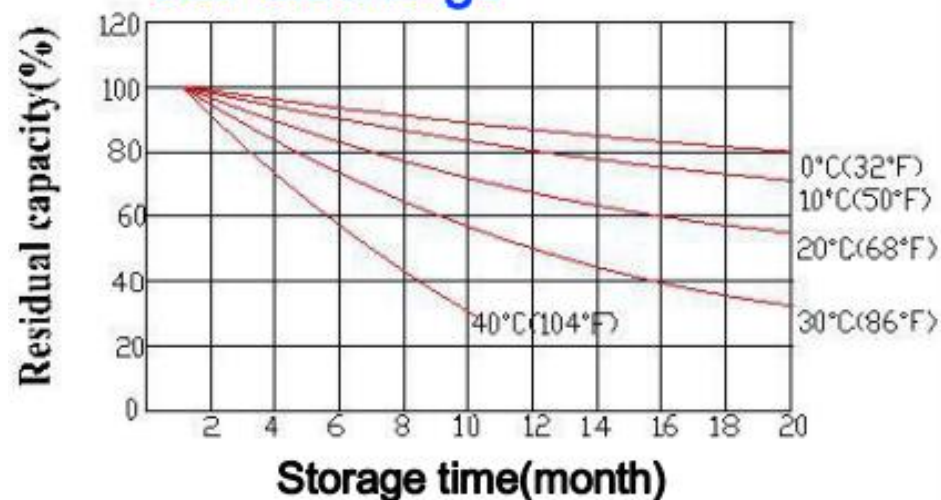
FLOAT TEMPERATURE COMPENSATION COEFFICIENT(25°C): -4mV/Cell C

EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT(25°C): -4mV/Cell C

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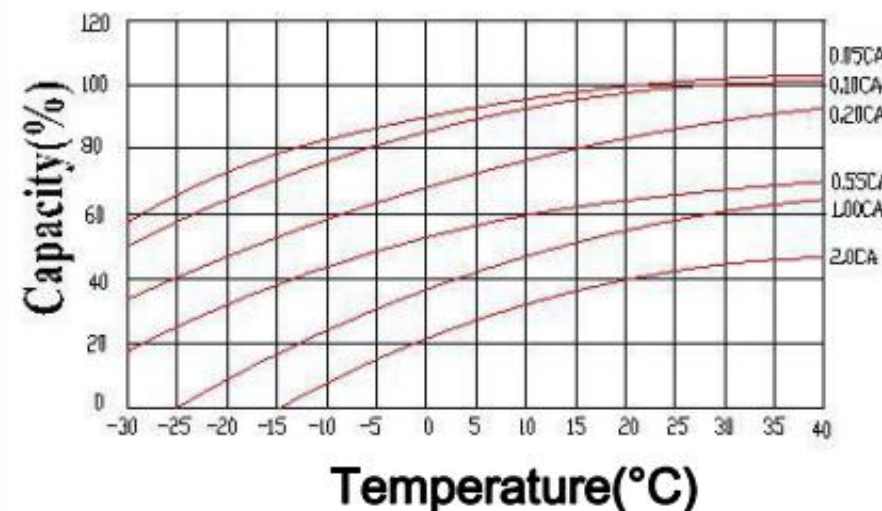
6. TEMPERATURE EFFECTED CHARACTERISTICS

Temperature effect on battery self-discharge



SELF-DISCHARGE CAPACITY(25°C):
AFTER 3 MONTHS: 92%
AFTER 6 MONTHS: 84%
AFTER 12 MONTHS: 65%

Temperature effect on capacity



CAPACITY AFFECTED BY TEMPERATURE: (10 HOUR)
40°C : 102%
25°C : 100%
0°C : 90%
-15°C : 70%

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