



GEL VALVE REGULATED RECHARGEABLE BATTERY



MODEL: G2-600(2V 600AH)

SOLAR

BATTERY

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA,
ASSEMBLED IN CHINA

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1. PRODUCT DIMENSIONS



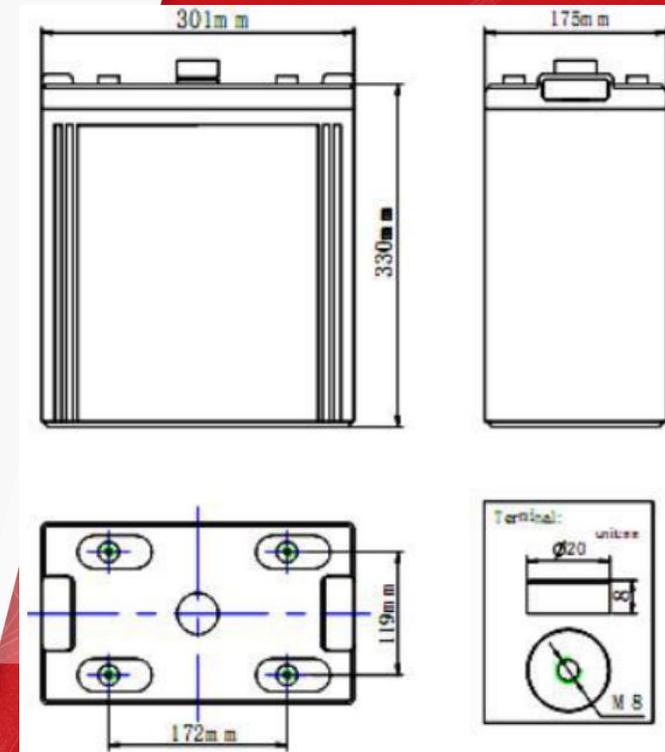
G2-600(2V 600AH)

BATTERY DIMENSION (MM)	LENGTH	301
	WIDTH	175
	HEIGHT	330
	TOTAL HEIGHT	368
BOX DIMENSION (MM)	LENGTH	316
	WIDTH	189
	HEIGHT	425
QUANTITY PER BOX		1 PC
N.W PER CELL (KG) ± 500g		38.0
N.W PER BOX (KG)		38.0
G.W PER BOX (KG)		39.0

2.PRODUCT CHARACTERISTICS

G2-600(2V 600AH)

NOMINAL VOLTAGE		2V
NOMINAL CAPACITY (10 HOUR RATE)		600AH
CAPACITY @25°C (77°F)	20 HOUR RATE(31.8A)	636.0AH
	5 HOUR RATE(106.1A)	530.5AH
	1 HOUR RATE(330.0A)	330.0AH
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 ≤0.27mΩ	
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 90A VOLTAGE 2.23-2.27V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 90A VOLTAGE 2.33-2.37V



TERMINAL: M8

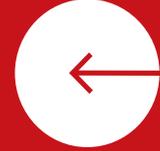
3.DISCHARGE CONSTANT CURRENT PER CELL

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	1676	1082	898	594	442	330	257	165.0	112.2	73.9	66.0	35.0
1.65V	1646	1063	881	583	434	324	253	162.0	110.2	72.6	64.8	34.3
1.70V	1615	1043	865	572	426	318	248	159.0	108.1	71.2	63.6	33.7
1.75V	1585	1023	849	562	418	312	243	156.0	106.1	69.9	62.4	33.1
1.80V	1524	984	816	540	402	300	234	150.0	102.0	67.2	60.0	31.8



**Amperes at
(77°F/25°C)**

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	3227	2084	1728	1143	851	635	495	317.6	216.0	142.3	127.1	67.3
1.65V	3168	2046	1696	1123	836	624	486	311.9	212.1	139.7	124.7	66.1
1.70V	3110	2008	1665	1102	820	612	477	306.1	208.1	137.1	122.4	64.9
1.75V	3051	1970	1634	1081	805	601	468	300.3	204.2	134.5	120.1	63.7
1.80V	2934	1894	1571	1040	774	578	450	288.8	196.4	129.4	115.5	61.2



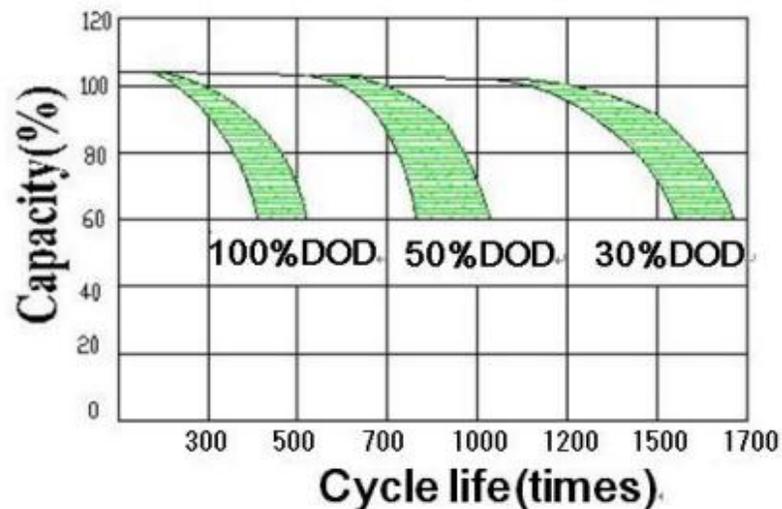
**Watts at
(77°F/25°C)**

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

**Battery
Construction**

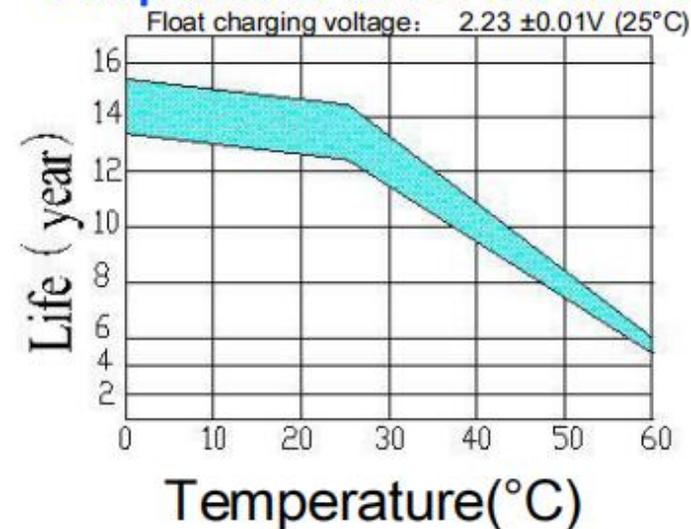
4. PERFORMANCE CHARACTERISTICS

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



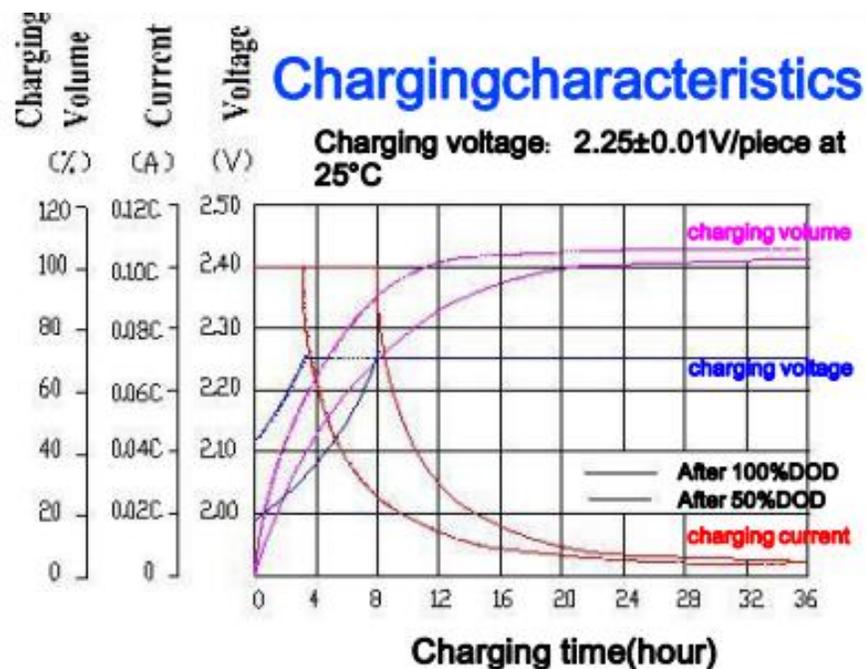
DESIGN LIFE: 15 YEARS

WARRANTY: 4 YEARS

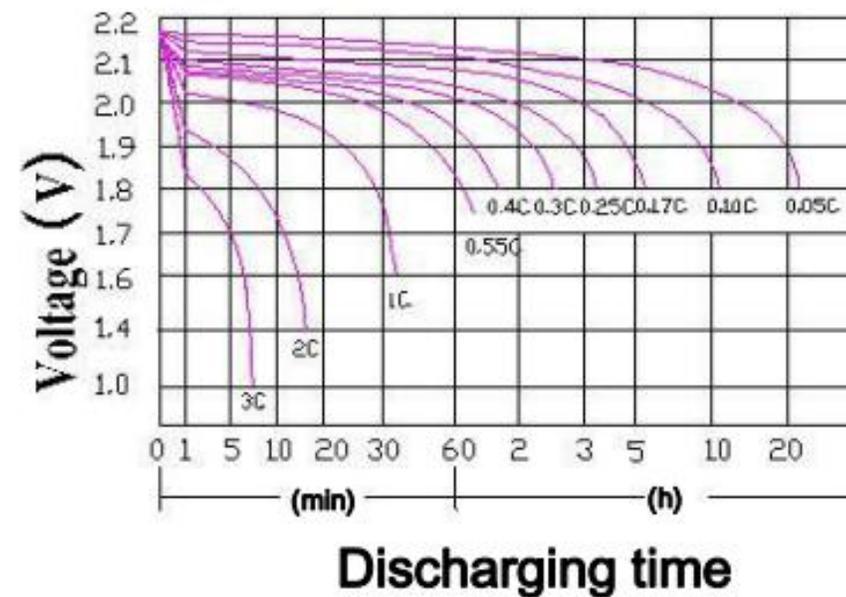
Note:1)The above datas are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values.
 2)Cell and battery designs/specifications are subject to modification without notice.

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5. CHARGE AND DISCHARGE CHARACTERISTICS



Discharge characteristics (25°C)



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

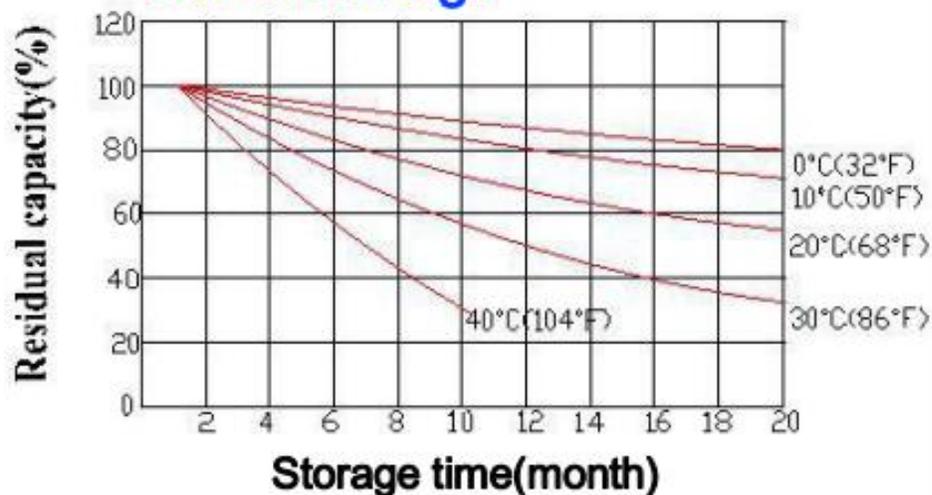
EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT(25°C): -4mV/Cell C

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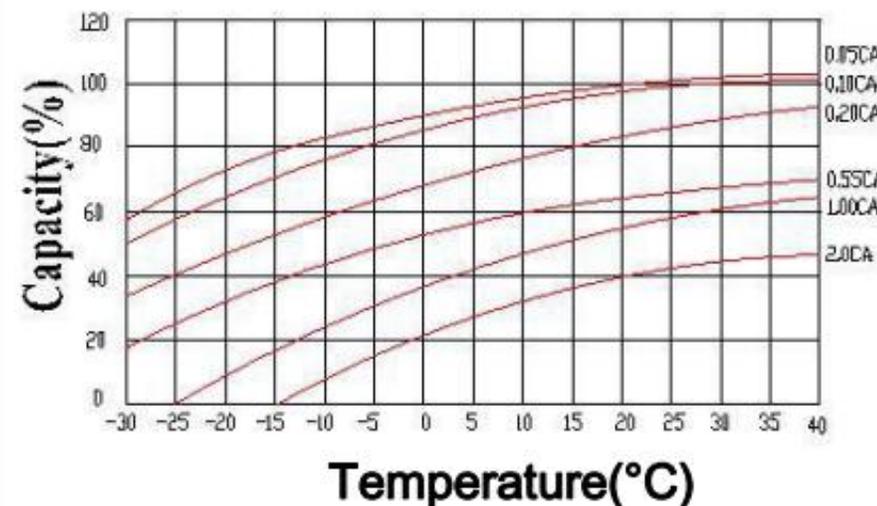
6. TEMPERATURE EFFECTED CHARACTERISTICS

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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