



GEL VALVE REGULATED RECHARGEABLE BATTERY



MODEL: G2-3000(2V 3000AH)

SOLAR

BATTERY

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA,
ASSEMBLED IN CHINA

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1.PRODUCT DIMENSIONS



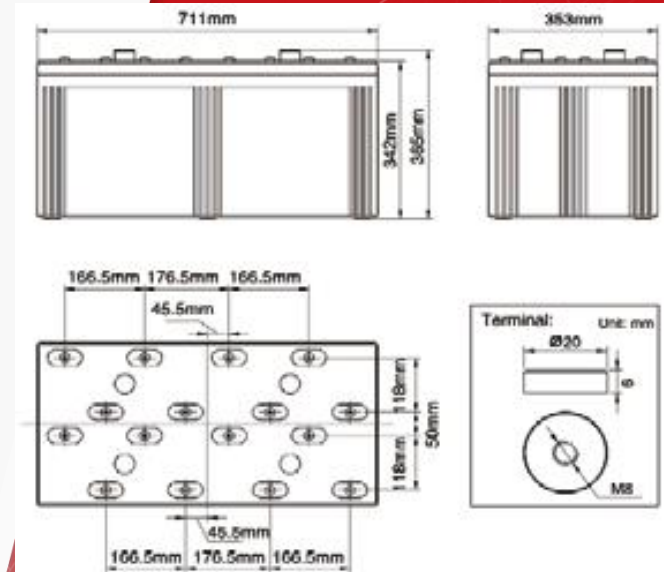
G2-3000(2V 3000AH)

BATTERY DIMENSION (MM)	LENGTH	711
	WIDTH	353
	HEIGHT	342
	TOTAL HEIGHT	383
BOX DIMENSION (MM)	LENGTH	800
	WIDTH	770
	HEIGHT	518
QUANTITY PER BOX		2 PCS
N.W PER CELL (KG)±1000g		200.0
N.W PER BOX (KG)		400.0
G.W PER BOX (KG)		420.0

2.PRODUCT CHARACTERISTICS

G2-3000(2V 3000AH)

NOMINAL VOLTAGE		2V
NOMINAL CAPACITY (10 HOUR RATE)		3000AH
CAPACITY @25°C (77°F)	20 HOUR RATE(159.0A)	3180.0AH
	5 HOUR RATE(530.4A)	2652.0AH
	1 HOUR RATE(1650.0A)	1650.0AH
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 ≤0.08mΩ	
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 400A VOLTAGE 2.23-2.27V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 400A 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	8382	5412	4488	2970	2211	1650	1287	825.0	561.0	369.6	330.0	174.9
1.65V	8230	5314	4406	2916	2171	1620	1264	810.0	550.8	362.9	324.0	171.7
1.70V	8077	5215	4325	2862	2131	1590	1240	795.0	540.6	356.2	318.0	168.5
1.75V	7925	5117	4243	2808	2090	1560	1217	780.0	530.4	349.4	312.0	165.4
1.80V	7620	4920	4080	2700	2010	1500	1170	750.0	510.0	336.0	300.0	159.0



**Amperes at
(77°F/25°C)**

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	16135	10418	8639	5717	4256	3176	2477	1588.1	1079.9	711.5	635.3	336.7
1.65V	15842	10229	8482	5613	4176	3119	2432	1559.3	1060.3	698.5	623.7	330.6
1.70V	15549	10039	8325	5509	4101	3061	2387	1530.4	1040.7	685.6	612.2	324.4
1.75V	15255	9850	8168	5405	4024	3003	2342	1501.5	1021.0	672.7	600.6	318.3
1.80V	14669	9471	7854	5198	3869	2888	2252	1443.8	981.8	646.8	577.5	306.1



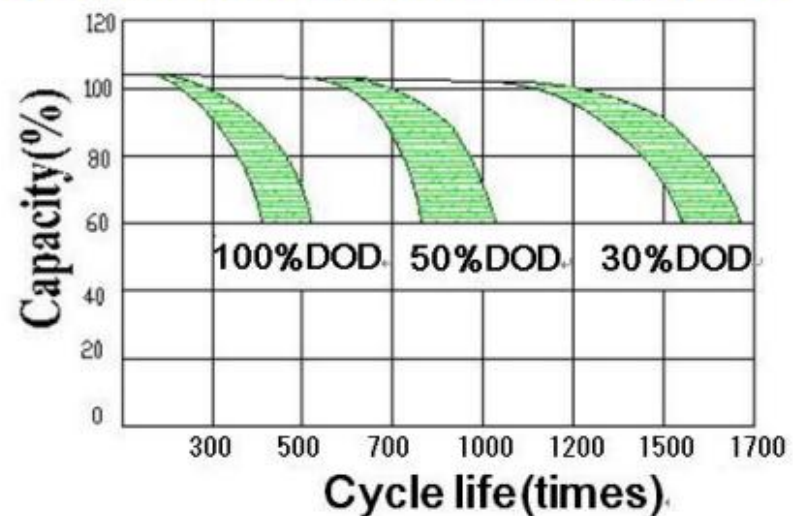
**Watts at
(77°F/25°C)**

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**

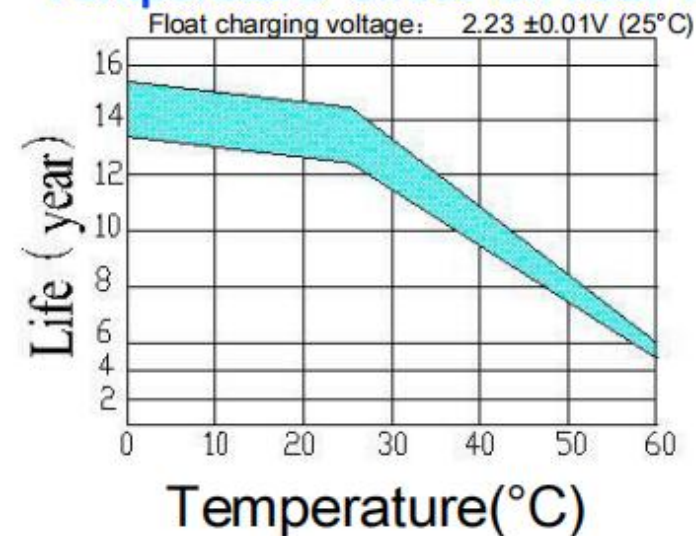
4. PERFORMANCE CHARACTERISTICS

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



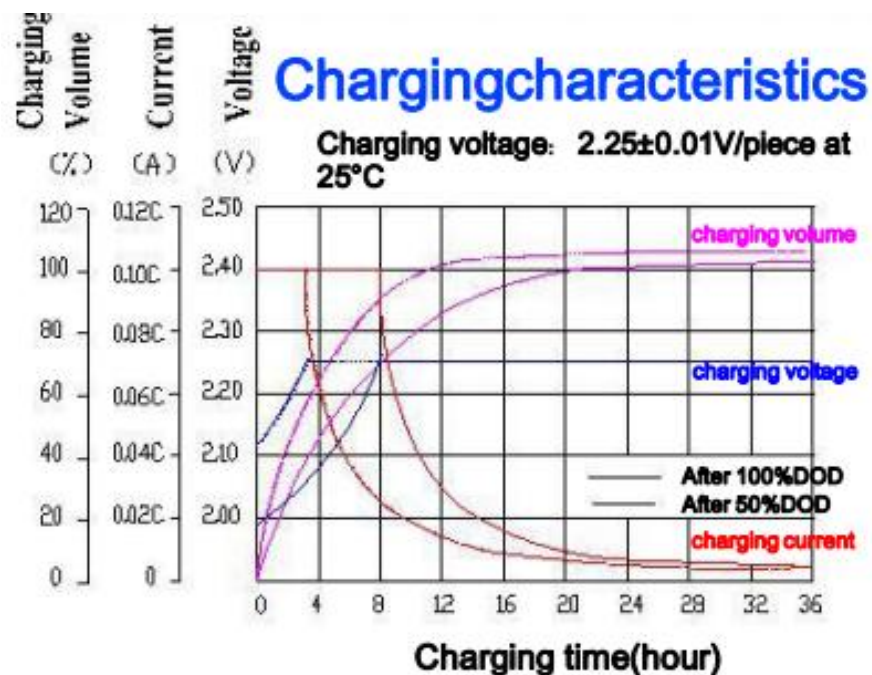
DESIGN LIFE: 15 YEARS

WARRANTY: 4 YEARS

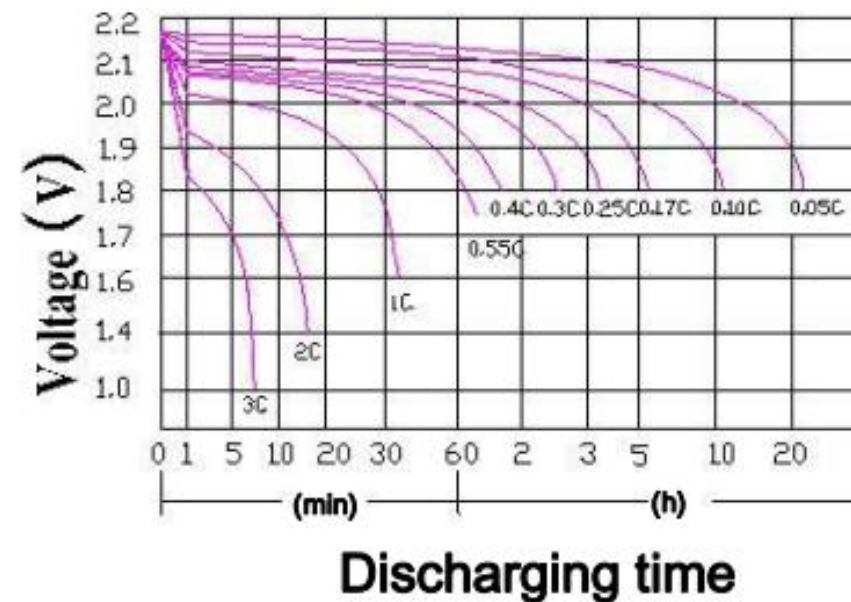
*Note:1)The above datas are average values, and can be obtained within 3 charge/ discharge cycles. These are not minimum values.
 2)Cell and battery designs/specifications are subject to modification without notice.*

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5. CHARGE AND DISCHARGE CHARACTERISTICS



Discharge characteristics (25°C)



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

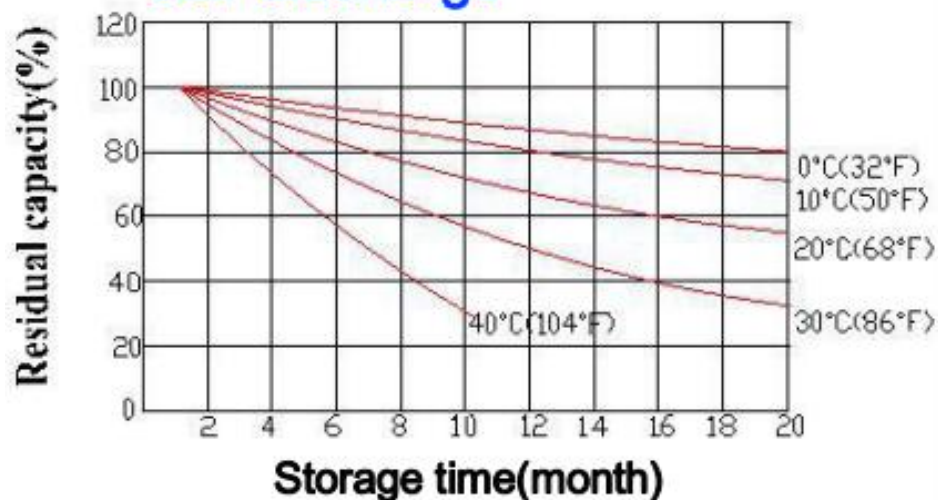
EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT(25°C): -4mV/Cell C

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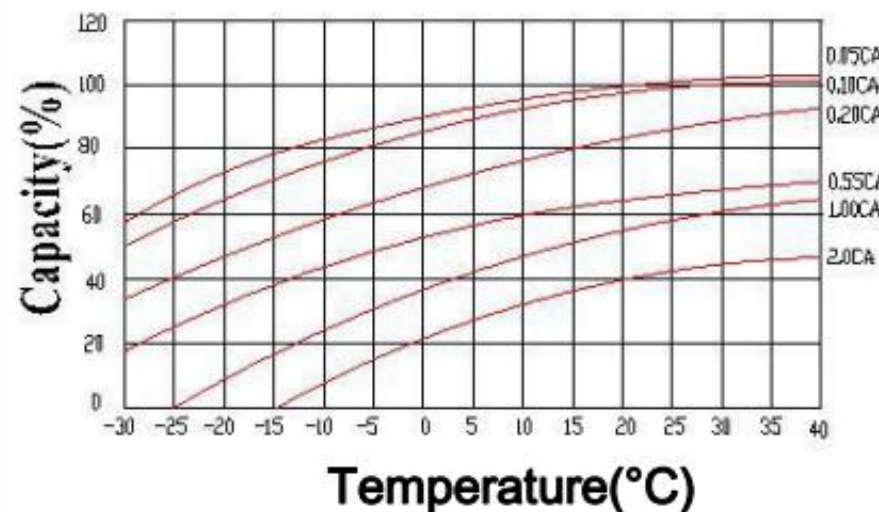
6. TEMPERATURE EFFECTED CHARACTERISTICS

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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