



GEL VALVE REGULATED RECHARGEABLE BATTERY



MODEL: G2-2000(2V 2000AH)

SOLAR BATTERY

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA,
ASSEMBLED IN CHINA

 www.connectinglegacy.com

1. PRODUCT DIMENSIONS



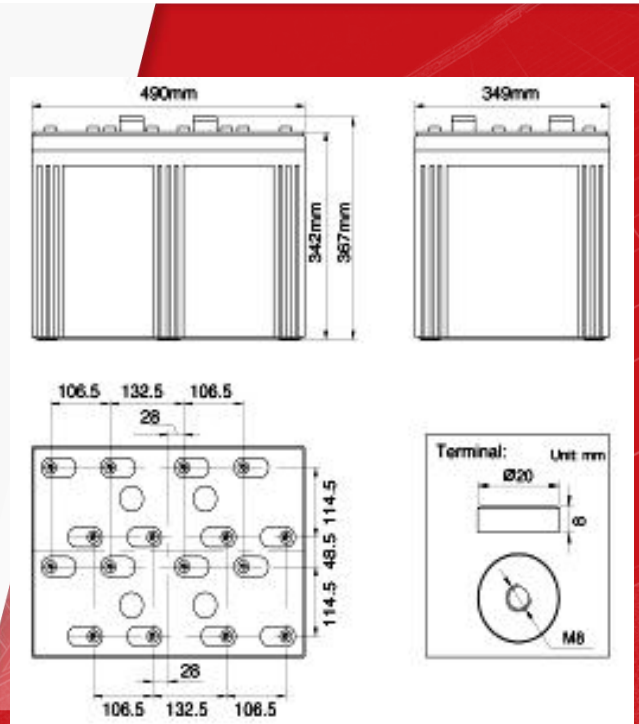
G2-2000(2V 2000AH)

| | | |
|----------------------------------|---------------------|--------------|
| BATTERY DIMENSION (MM) | LENGTH | 490 |
| | WIDTH | 349 |
| | HEIGHT | 342 |
| | TOTAL HEIGHT | 383 |
| BOX DIMENSION (MM) | LENGTH | 1070 |
| | WIDTH | 420 |
| | HEIGHT | 518 |
| QUANTITY PER BOX | | 2 PCS |
| N.W PER CELL (KG) ± 1000g | | 130.0 |
| N.W PER BOX (KG) | | 260.0 |
| G.W PER BOX (KG) | | 280.0 |

2.PRODUCT CHARACTERISTICS

G2-2000(2V 2000AH)

| NOMINAL VOLTAGE | | 2V |
|---------------------------------------|-----------------------------------|--|
| NOMINAL CAPACITY (10 HOUR RATE) | | 2000AH |
| CAPACITY @25°C (77°F) | 20 HOUR RATE(106.0A) | 2120.0AH |
| | 5 HOUR RATE(353.6A) | 1768.0AH |
| | 1 HOUR RATE(1100.0A) | 1100.0AH |
| 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 ≤0.12mΩ | |
| CHARGE (CONSTANT VOLTAGE) @25°C(77°F) | FLOAT | INITIAL CHARGING CURRENT LESS THAN 300A VOLTAGE 2.23-2.27V |
| | CYCLE | INITIAL CHARGING CURRENT LESS THAN 300A 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 | 5588 | 3608 | 2992 | 1980 | 1474 | 1100 | 858 | 550.0 | 374.0 | 246.4 | 220.0 | 116.6 |
| 1.65V | 5486 | 3542 | 2938 | 1944 | 1447 | 1080 | 842 | 540.0 | 367.2 | 241.9 | 216.0 | 114.5 |
| 1.70V | 5385 | 3477 | 2883 | 1908 | 1420 | 1060 | 827 | 530.0 | 360.4 | 237.4 | 212.0 | 112.4 |
| 1.75V | 5283 | 3411 | 2829 | 1872 | 1394 | 1040 | 811 | 520.0 | 353.6 | 233.0 | 208.0 | 110.2 |
| 1.80V | 5080 | 3280 | 2720 | 1800 | 1340 | 1000 | 780 | 500.0 | 340.0 | 224.0 | 200.0 | 106.0 |



**Amperes at
(77°F/25°C)**

| F.V/TIME | 5MIN | 10MIN | 15 MIN | 30MIN | 45MIN | 1H | 2H | 3H | 5H | 8H | 10H | 20H |
|----------|-------|-------|--------|-------|-------|------|------|--------|-------|-------|-------|-------|
| 1.60V | 10757 | 6945 | 5760 | 3812 | 2837 | 2118 | 1652 | 1058.8 | 720.0 | 474.3 | 423.5 | 224.5 |
| 1.65V | 10561 | 6819 | 5655 | 3742 | 2786 | 2079 | 1622 | 1039.5 | 706.9 | 465.7 | 415.8 | 220.4 |
| 1.70V | 10366 | 6693 | 5550 | 3673 | 2734 | 2041 | 1592 | 1020.3 | 693.8 | 457.1 | 408.1 | 216.3 |
| 1.75V | 10170 | 6567 | 5445 | 3604 | 2683 | 2002 | 1562 | 1001.0 | 680.7 | 448.4 | 400.4 | 212.2 |
| 1.80V | 9779 | 6314 | 5236 | 3465 | 2580 | 1925 | 1502 | 962.5 | 654.5 | 431.2 | 385.0 | 204.1 |



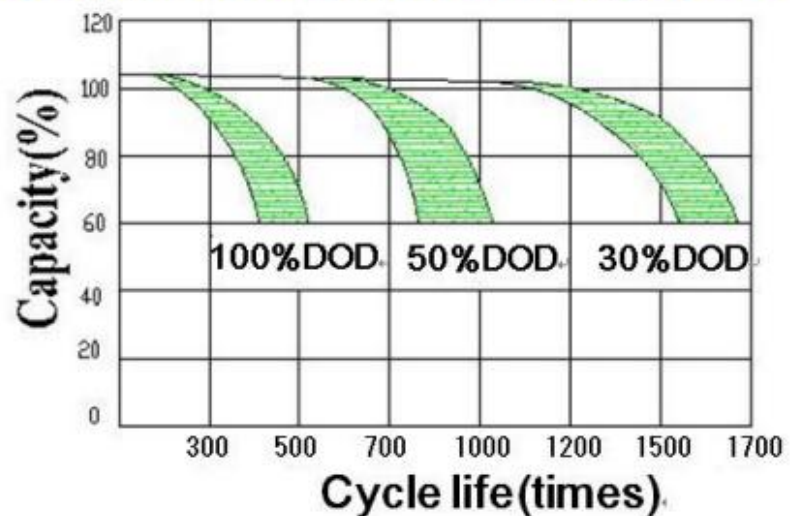
**Watts at
(77°F/25°C)**

| 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**

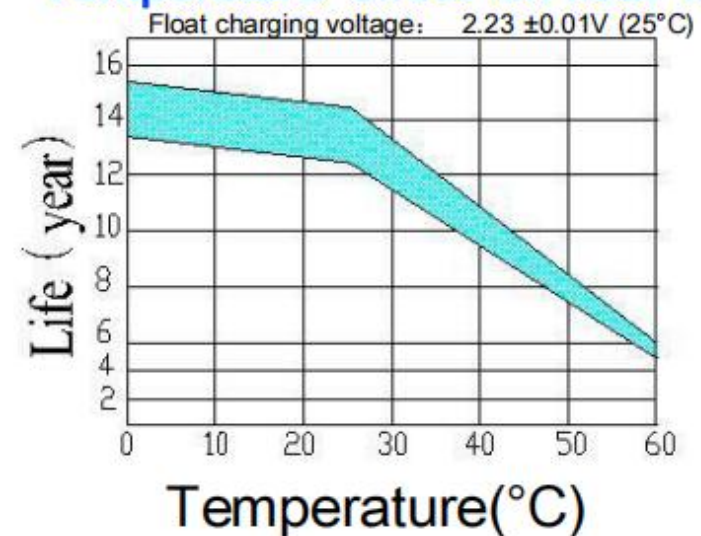
4. PERFORMANCE CHARACTERISTICS

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

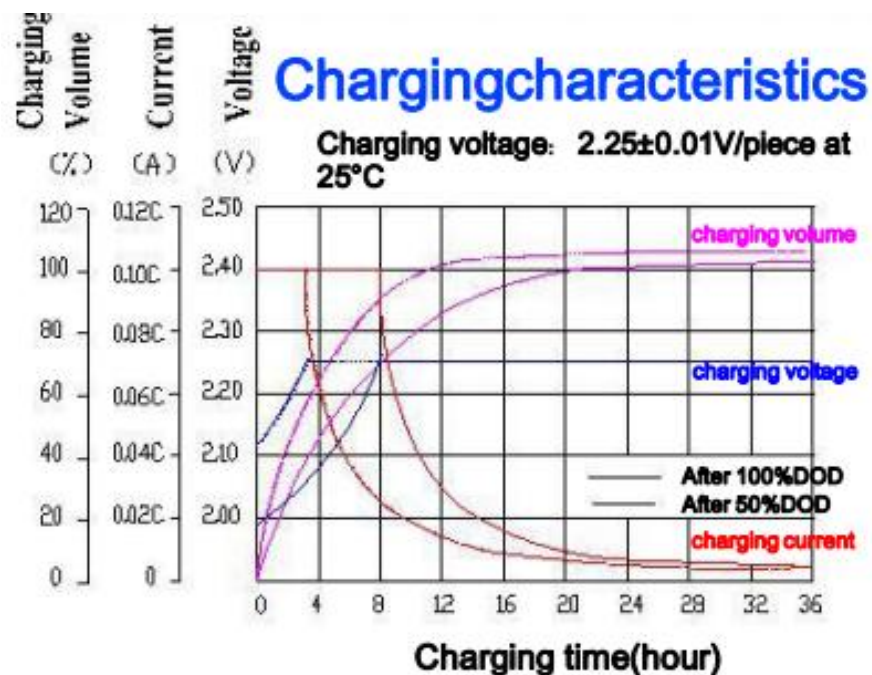


DESIGN LIFE: 15 YEARS

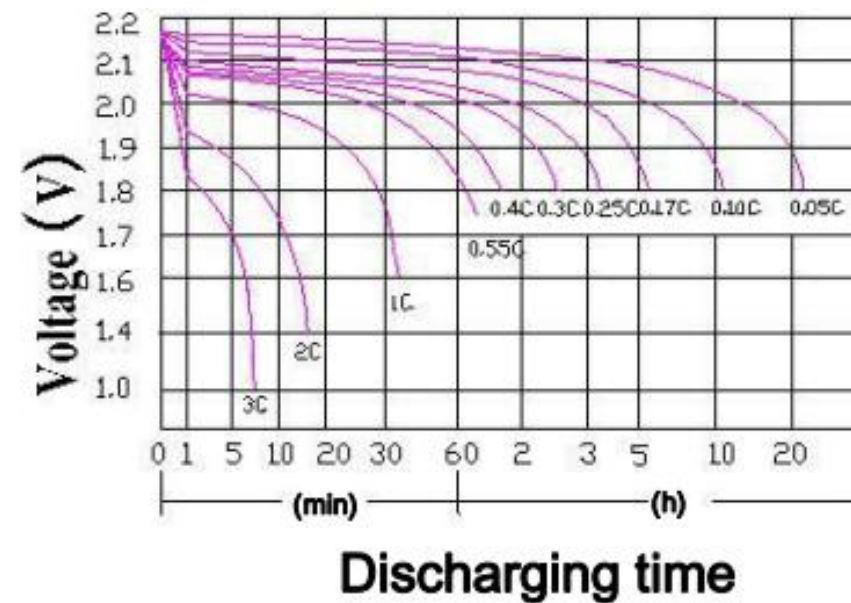
WARRANTY: 4 YEARS

*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.*

5. CHARGE AND DISCHARGE CHARACTERISTICS



Discharge characteristics (25°C)



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

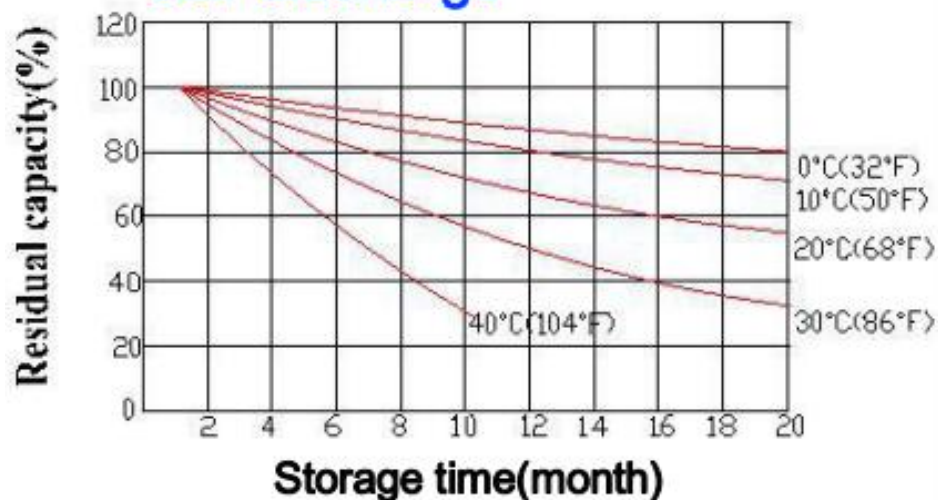
EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT(25°C): -4mV/Cell C

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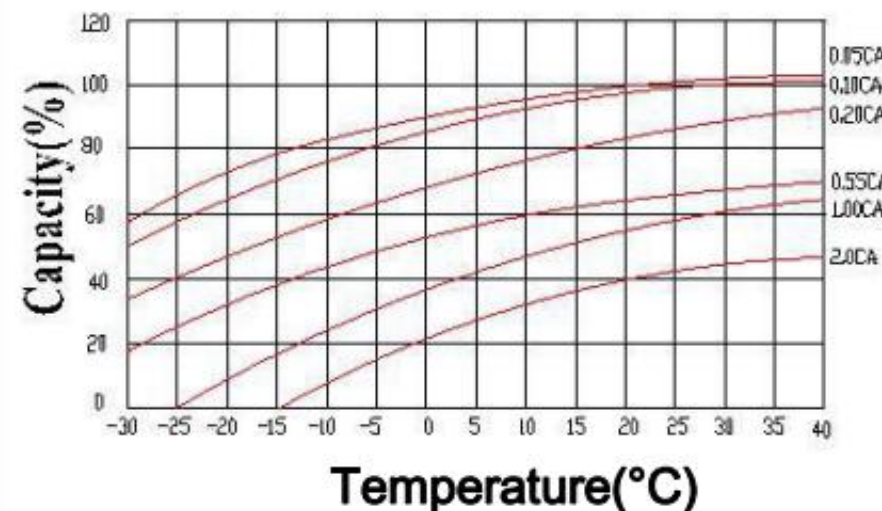
6. TEMPERATURE EFFECTED CHARACTERISTICS

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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