



# GEL VALVE REGULATED RECHARGEABLE BATTERY



**MODEL: G12-12(12V 12AH)**

# SOLAR

# BATTERY

LEGACY CANADIAN PRODUCTS  
DESIGNED IN CANADA,  
ASSEMBLED IN CHINA

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# 1.PRODUCT DIMENSIONS



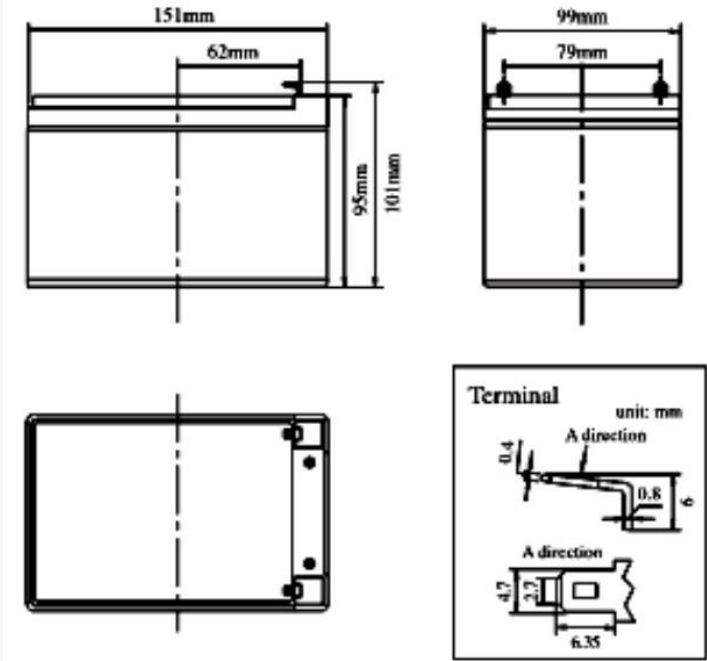
**G12-12(12V 12AH)**

<b>BATTERY DIMENSION (MM)</b>	<b>LENGTH</b>	<b>151</b>
	<b>WIDTH</b>	<b>99</b>
	<b>HEIGHT</b>	<b>95</b>
	<b>TOTAL HEIGHT</b>	<b>101</b>
<b>BOX DIMENSION (MM)</b>	<b>LENGTH</b>	<b>325</b>
	<b>WIDTH</b>	<b>218</b>
	<b>HEIGHT</b>	<b>141</b>
<b>QUANTITY PER BOX</b>		<b>4 PCS</b>
<b>N.W PER CELL (KG)±150g</b>		<b>3.80</b>
<b>N.W PER BOX (KG)</b>		<b>13.6</b>
<b>G.W PER BOX (KG)</b>		<b>14.0</b>

## 2.PRODUCT CHARACTERISTICS

<b>NOMINAL VOLTAGE</b>		<b>12V</b>
<b>NOMINAL CAPACITY (10 HOUR RATE)</b>		<b>12AH</b>
CAPACITY @25°C (77°F)	20 HOUR RATE(11.0A)	11.4AH
	5 HOUR RATE(35.4A)	10.7AH
	1 HOUR RATE(132A)	7.92AH
CYCLE LIFE(@25°C)	100%DOD	250 TIMES
	50%DOD	450 TIMES
	30%DOD	800 TIMES
DESIGN LIFE	3 YEARS	
SELF-DISCHARGE(@25°C)	< 3%/MONTH	
INTERNAL RESISTANCE	FULL CHARGED BATTERY 25°C ≤14mΩ	
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 3.6A VOLTAGE 13.6-13.8V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 3.6A VOLTAGE 14.4-15.0V

### G12-12(12V 12AH)




### TERMINAL: F1

# 3. DISCHARGE CONSTANT CURRENT PER CELL


F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	39.60	26.40	19.86	13.20	9.24	7.92	4.95	3.39	2.26	1.52	1.26	0.66
1.65V	38.88	25.92	19.50	12.96	9.07	7.78	4.86	3.33	2.22	1.49	1.23	0.65
1.70V	38.16	25.44	19.14	12.72	8.90	7.63	4.77	3.27	2.18	1.46	1.21	0.64
1.75V	37.44	24.96	18.78	12.48	8.74	7.49	4.68	3.21	2.14	1.44	1.19	0.62
1.80V	36.00	24.00	18.06	12.00	8.40	7.20	4.50	3.08	2.06	1.38	1.14	0.60

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	76.23	50.82	38.24	25.41	17.79	15.25	9.53	6.53	4.35	2.93	2.42	1.27
1.65V	74.84	49.90	37.54	24.95	17.46	14.97	9.36	6.41	4.27	2.87	2.37	1.25
1.70V	73.46	48.97	36.85	24.49	17.14	14.69	9.18	6.29	4.20	2.82	2.33	1.22
1.75V	72.07	48.05	36.15	24.02	16.82	14.41	9.01	6.17	4.12	2.77	2.29	1.20
1.80V	69.30	46.20	34.76	23.10	16.17	13.86	8.66	5.94	3.96	2.66	2.20	1.16

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



**Amperes at  
(77°F/25°C)**



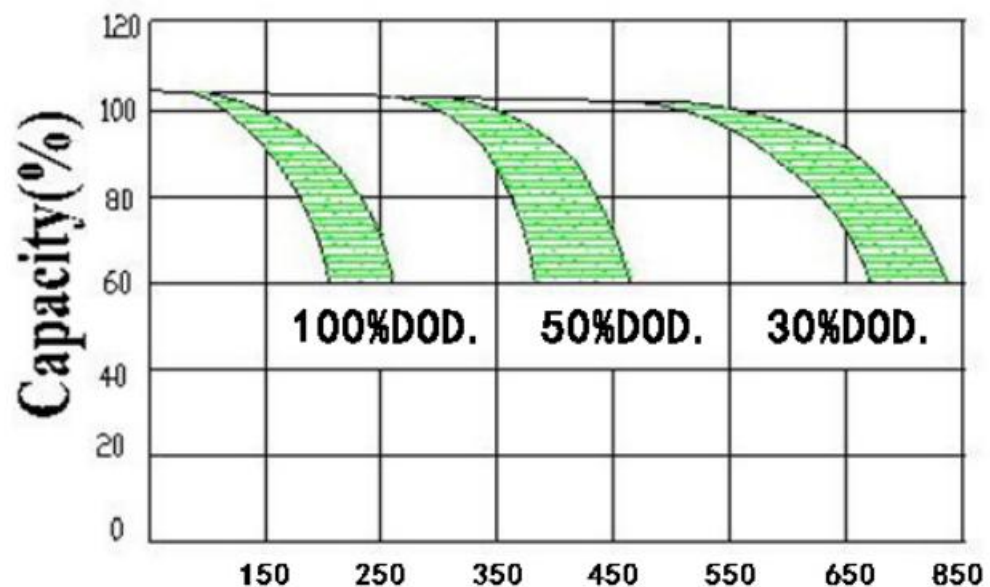
**Watts at  
(77°F/25°C)**

**Battery  
Construction**



## 4. PERFORMANCE CHARACTERISTICS

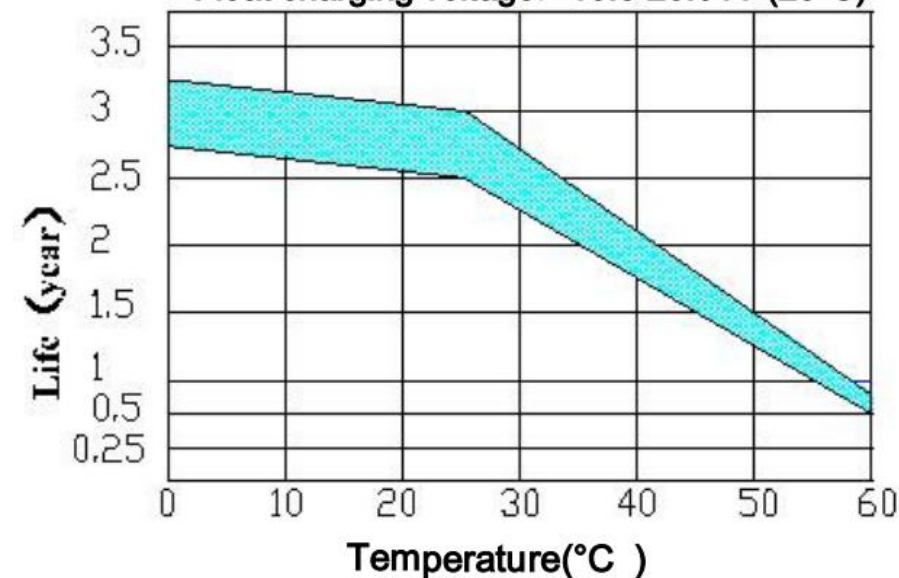
Cycle life vs. Depth of discharge (25°C)



**CYCLE LIFE: 100%DOD 250TIMES**  
**(@25°C) 50%DOD 450TIMES**  
**30%DOD 800TIMES**

Temperature effect on float life

Float charging voltage: 13.8 ±0.01V (25°C)

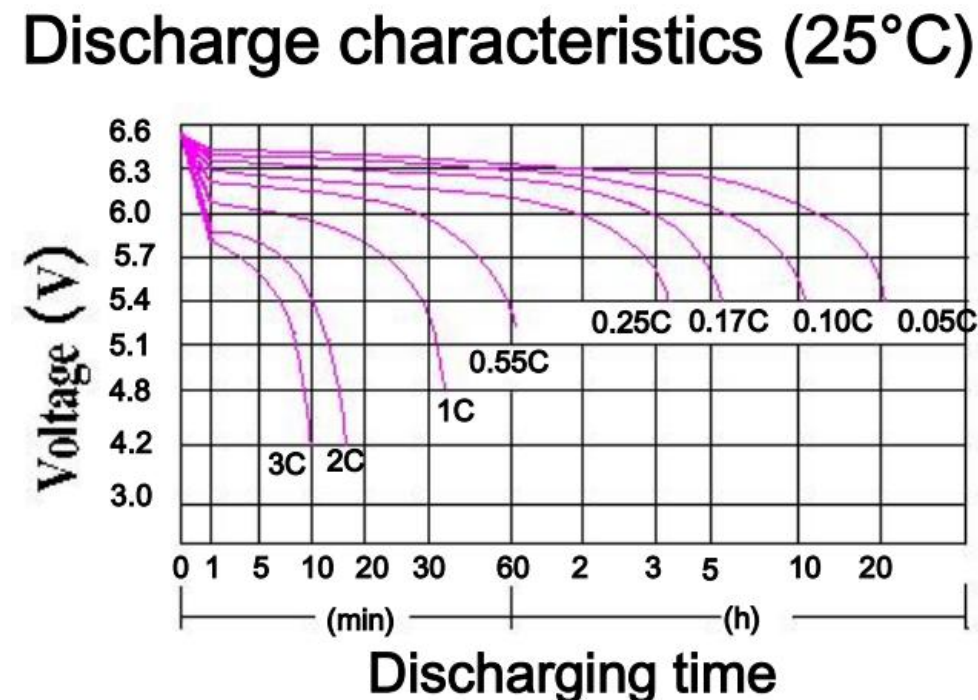
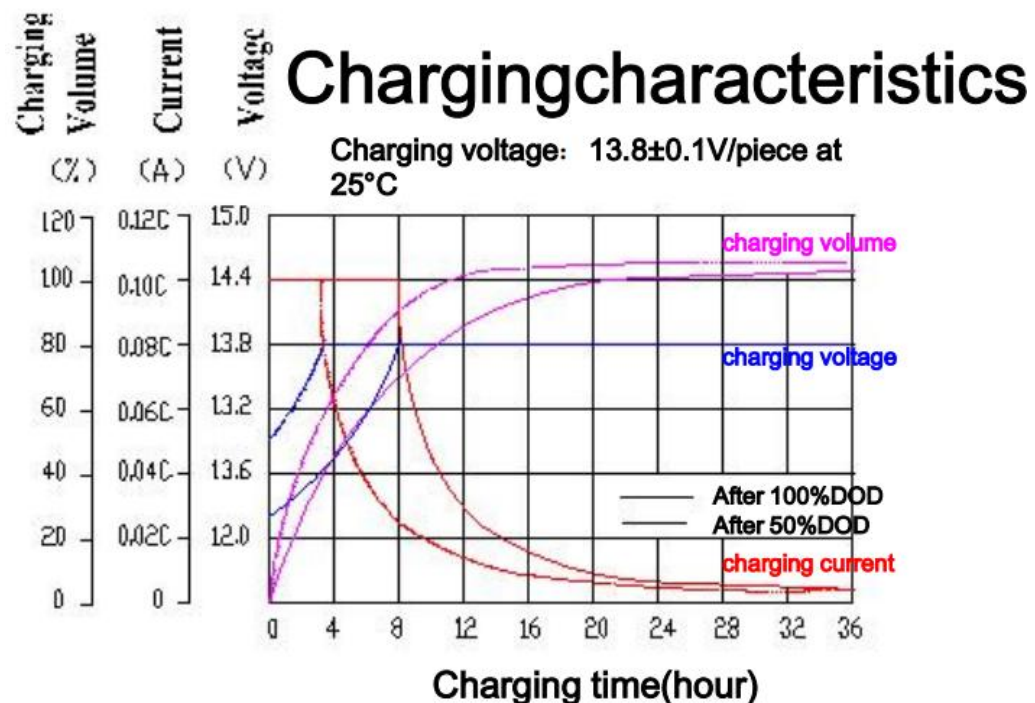


**DESIGN LIFE: 3 YEARS**

**WARRANTY: 1 YEAR**

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



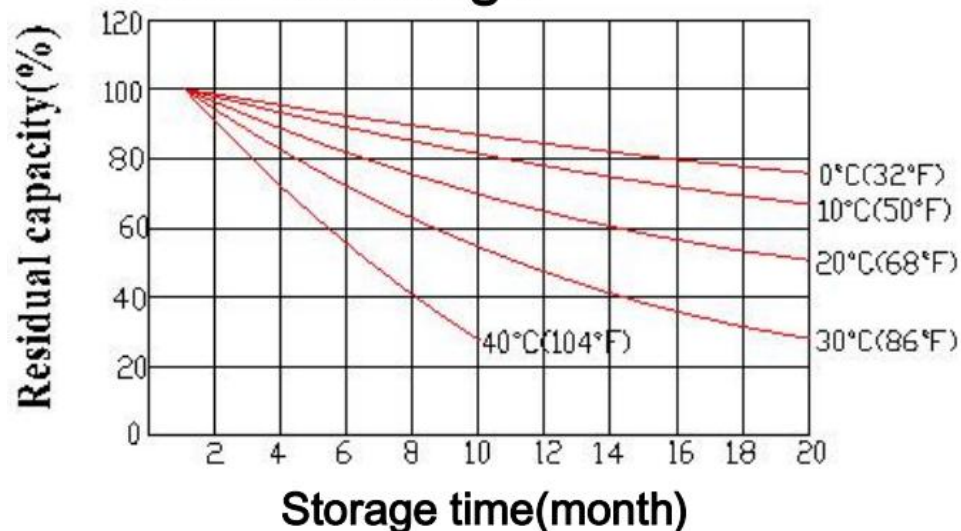
**FLOAT TEMPERATURE COMPENSATION COEFFICIENT( $25^{\circ}C$ ):  $-2mV/Cell\ C$**

**EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT( $25^{\circ}C$ ):  $-6mV/Cell\ C$**

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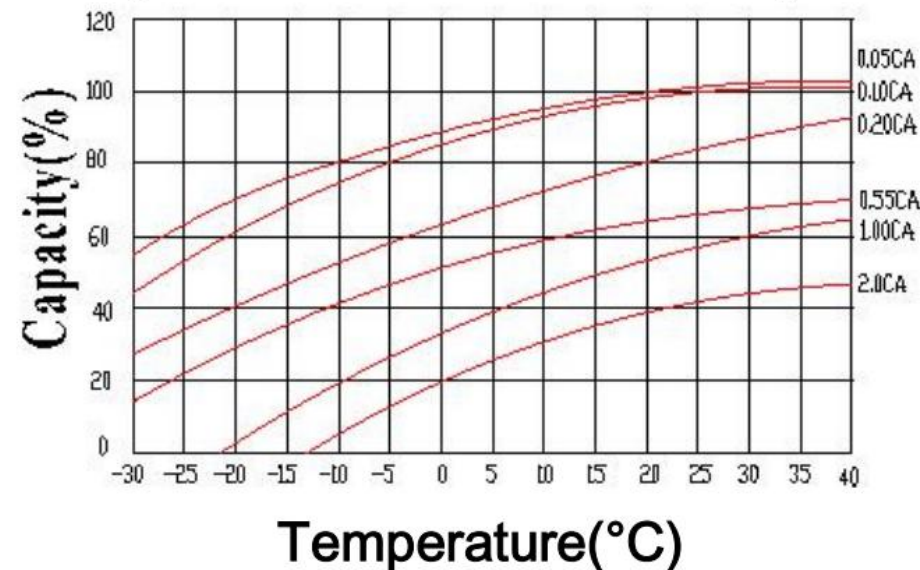
## 6. TEMPERATURE EFFECTED CHARACTERISTICS

### Temperature effect on battery self-discharge



**SELF-DISCHARGE CAPACITY(25°C):**  
**AFTER 3 MONTHS: 92%**  
**AFTER 6 MONTHS: 82%**  
**AFTER 12 MONTHS: 65%**

### Temperature effect on capacity



**CAPACITY AFFECTED BY TEMPERATURE: (10 HOUR)**  
**40°C : 102%**  
**25°C : 100%**  
**0°C : 85%**  
**-15°C : 65%**

*Note:*

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