



# ***GEL VALVE REGULATED RECHARGEABLE BATTERY***



**MODEL: G12-65(12V 65AH)**

# **SOLAR**

# **BATTERY**

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

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# 1.PRODUCT DIMENSIONS



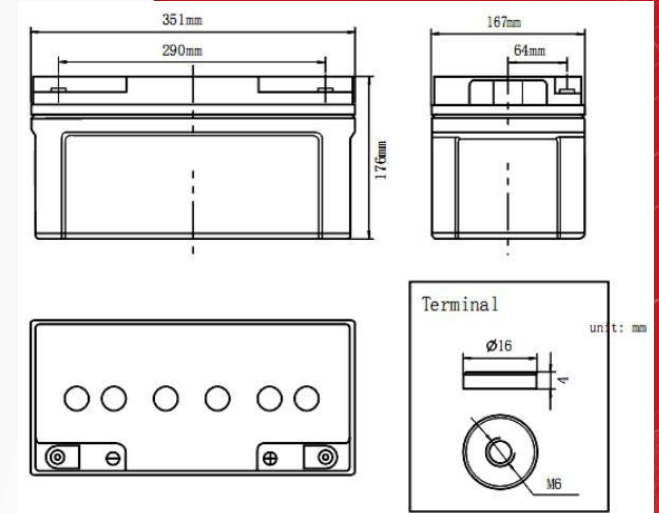
**G12-65(12V 65AH)**

<b>BATTERY DIMENSION (MM)</b>	<b>LENGTH</b>	<b>351</b>
	<b>WIDTH</b>	<b>167</b>
	<b>HEIGHT</b>	<b>176</b>
	<b>TOTAL HEIGHT</b>	<b>176</b>
<b>BOX DIMENSION (MM)</b>	<b>LENGTH</b>	<b>244</b>
	<b>WIDTH</b>	<b>152</b>
	<b>HEIGHT</b>	<b>254</b>
<b>QUANTITY PER BOX</b>		<b>1PC</b>
<b>N.W PER CELL (KG)±200g</b>		<b>20.0</b>
<b>N.W PER BOX (KG)</b>		<b>20.0</b>
<b>G.W PER BOX (KG)</b>		<b>21.0</b>

## 2.PRODUCT CHARACTERISTICS

NOMINAL VOLTAGE		12V
NOMINAL CAPACITY (10 HOUR RATE)		65AH
CAPACITY @25°C (77°F)	20 HOUR RATE(3.61A)	72.2AH
	5 HOUR RATE(11.9A)	59.5AH
	1 HOUR RATE(42.3A)	43.2AH
CYCLE LIFE(@25°C)	100%DOD	800 TIMES
	50%DOD	1250 TIMES
	30%DOD	1750 TIMES
DESIGN LIFE		8 YEARS
SELF-DISCHARGE(@25°C)		< 3%/MONTH
INTERNAL RESISTANCE		FULL CHARGED BATTERY 25°C ≤7.0mΩ
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 16.3A VOLTAGE 13.6-13.8V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 16.3A VOLTAGE 14.4-14.9V

### G12-65(12V 65AH)




**TERMINAL:M6**


## 3. DISCHARGE CONSTANT CURRENT PER CELL

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	218.6	145.6	109.7	68.3	49.0	43.2	26.4	19.3	12.4	7.6	6.76	3.75
1.65V	201.5	134.2	105.2	66.5	47.7	42.1	25.9	18.9	12.2	7.5	6.70	3.72
1.70V	204.9	136.5	100.6	64.6	46.4	40.9	25.4	18.6	12.1	7.4	6.63	3.68
1.75V	181.0	120.6	96.0	62.8	45.1	39.8	24.8	18.1	11.9	7.4	6.57	3.64
1.80V	170.8	113.8	91.5	61.0	43.7	38.6	24.2	17.7	11.7	7.3	6.50	3.61

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	407.6	271.5	204.7	127.4	91.4	80.6	49.2	35.9	23.1	14.1	12.6	7.0
1.65V	375.8	250.3	196.1	123.9	88.9	78.5	48.3	35.3	22.8	14.0	12.5	6.9
1.70V	382.1	254.6	187.6	120.5	86.5	76.3	47.4	34.6	22.5	13.8	12.4	6.9
1.75V	337.6	224.9	179.1	117.1	84.0	74.2	46.2	33.8	22.1	13.7	12.2	6.8
1.80V	318.5	212.1	170.6	113.7	81.6	72.0	45.1	33.0	21.8	13.6	12.1	6.7

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

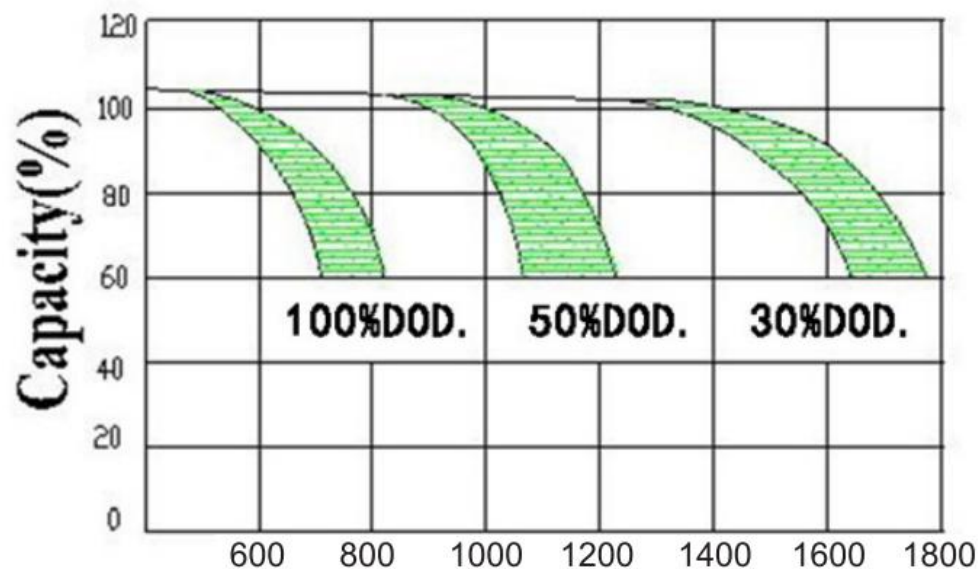
  
**Amperes at  
(77°F/25°C)**

  
**Watts at  
(77°F/25°C)**

**Battery  
Construction**

## 4.LIFE PERFORMANCE CHARACTERISTICS

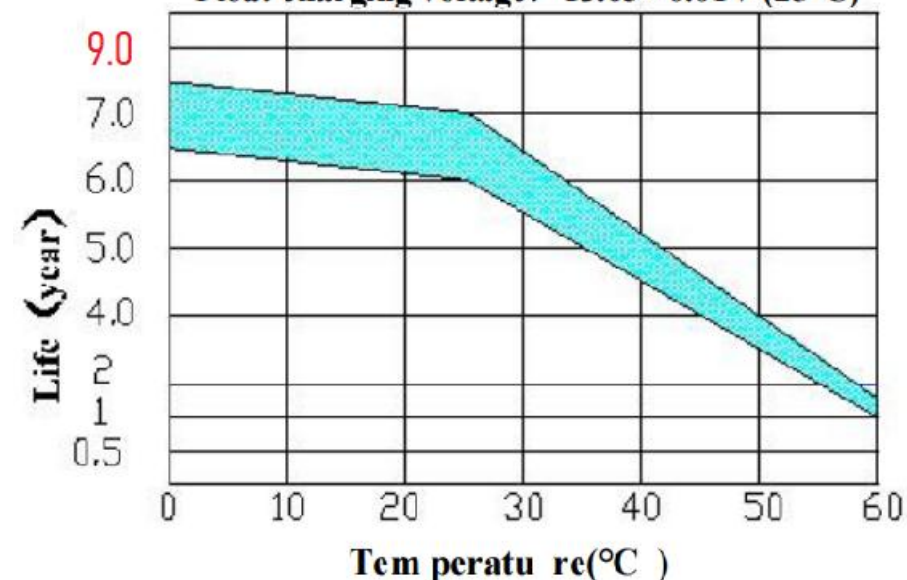
Cycle life vs.Depth of discharge (25°C)



**CYCLE LIFE: 100%DOD 800TIMES  
(@25°C) 50%DOD 1250TIMES  
30%DOD 1750TIMES**

Temperature effect on float life

Float charging voltage: 13.65 ±0.01V (25°C)



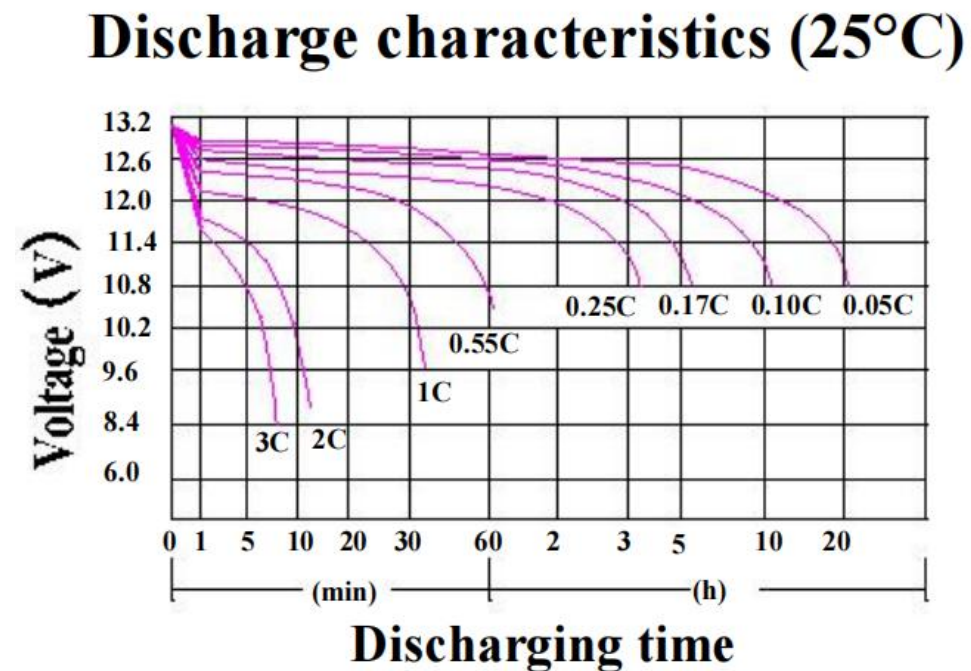
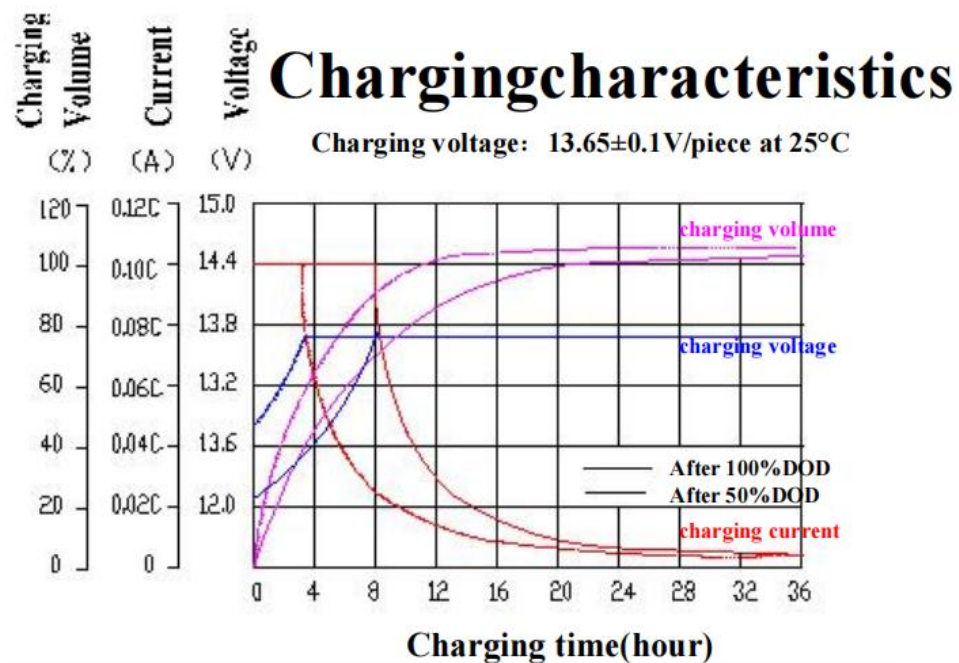
**WORKING LIFE: UP TO 8 YEARS**

**WARRANTY: 2 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



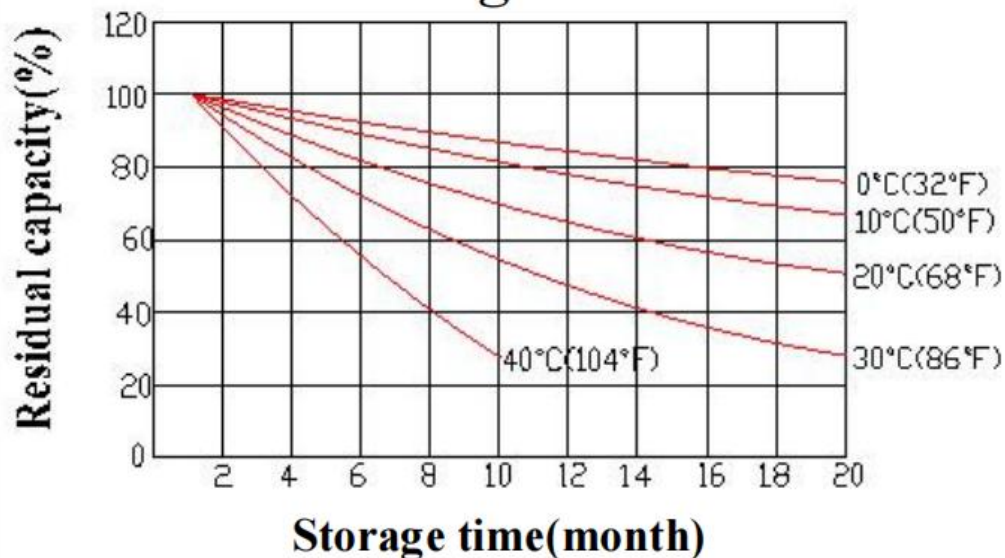
**FLOAT TEMPERATURE COMPENSATION COEFFICIENT( $25^{\circ}\text{C}$ ):  $-4\text{mV}/\text{Cell } ^{\circ}\text{C}$**

**EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT( $25^{\circ}\text{C}$ ):  $-5\text{mV}/\text{Cell } ^{\circ}\text{C}$**

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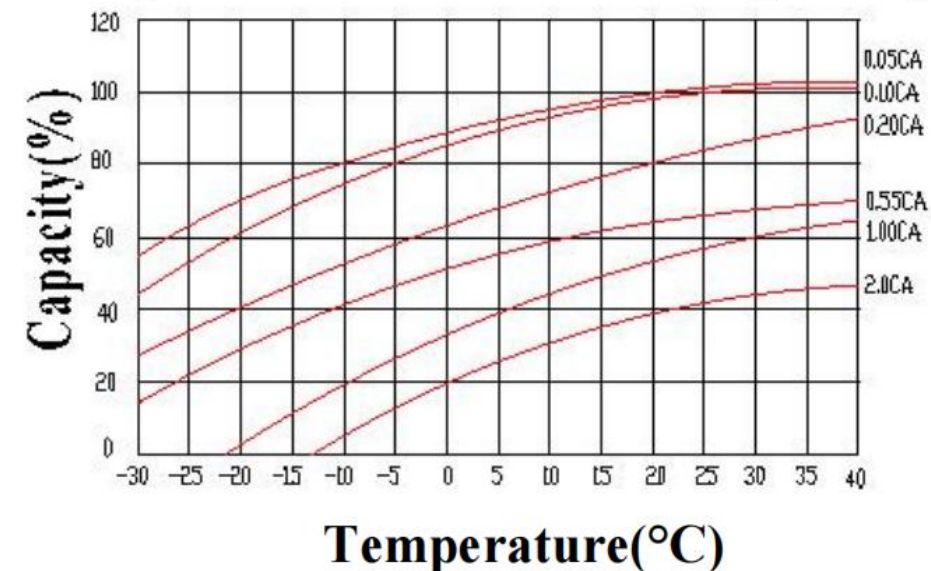
## 6. TEMPERATURE EFFECTED CHARACTERISTICS

### 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:**  
**40°C : 102%**  
**25°C : 100%**  
**0°C : 85%**  
**-15°C : 65%**

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