



GEL VALVE REGULATED RECHARGEABLE BATTERY



MODEL: G12-7(12V 7AH)

SOLAR BATTERY

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA,
ASSEMBLED IN CHINA

www.connectinglegacy.com

1. PRODUCT DIMENSIONS



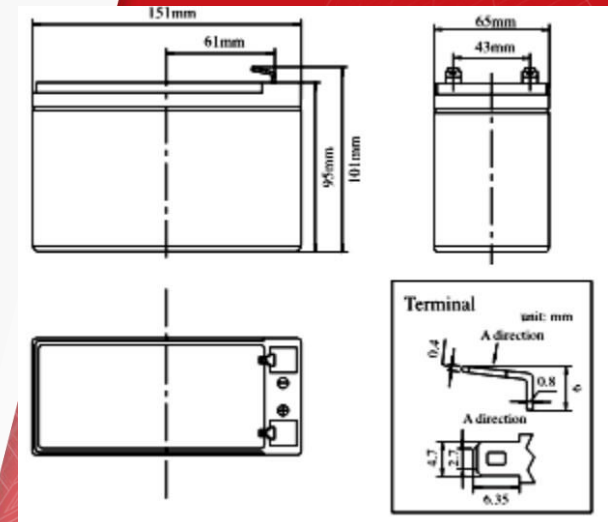
G12-7(12V 7AH)

BATTERY DIMENSION (MM)	LENGTH	151
	WIDTH	65
	HEIGHT	95
	TOTAL HEIGHT	101
BOX DIMENSION (MM)	LENGTH	364
	WIDTH	165
	HEIGHT	141
QUANTITY PER BOX		5 PCS
N.W PER CELL (KG) ± 100g		2.25
N.W PER BOX (KG)		11.25
G.W PER BOX (KG)		11.7

PRODUCT CHARACTERISTICS

NOMINAL VOLTAGE		12V
NOMINAL CAPACITY (10 HOUR RATE)		7.5AH
CAPACITY @25°C (77°F)	20 HOUR RATE(11.0A)	7.1AH
	5 HOUR RATE(35.4A)	6.7AH
	1 HOUR RATE(132A)	4.95AH
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 ≤21mΩ
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 2.25A VOLTAGE 13.6-13.8V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 2.25A VOLTAGE 14.4-15.0V

G12-7(12V 7AH)




TERMINAL: F1


DISCHARGE CONSTANT CURRENT PER CELL

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	24.75	16.50	12.42	8.25	5.78	4.95	3.09	2.12	1.41	0.95	0.79	0.41
1.65V	24.30	16.20	12.19	8.10	5.67	4.86	3.04	2.08	1.39	0.93	0.77	0.41
1.70V	23.85	15.90	11.96	7.95	5.57	4.77	2.98	2.04	1.36	0.92	0.76	0.40
1.75V	23.40	15.60	11.74	7.80	5.46	4.68	2.93	2.00	1.34	0.90	0.74	0.39
1.80V	22.50	15.00	11.29	7.50	5.25	4.50	2.81	1.93	1.28	0.86	0.71	0.38

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	47.64	31.76	23.90	15.88	11.12	9.53	5.96	4.08	2.72	1.83	1.51	0.79
1.65V	46.78	31.19	23.46	15.59	10.91	9.36	5.85	4.01	2.67	1.80	1.48	0.78
1.70V	45.91	30.61	23.03	15.30	10.71	9.18	5.74	3.93	2.62	1.76	1.46	0.77
1.75V	45.05	30.03	22.06	15.02	10.51	9.01	5.63	3.86	2.57	1.73	1.43	0.75
1.80V	43.31	28.88	21.73	14.44	10.11	8.66	5.41	3.71	2.47	1.66	1.37	0.72

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

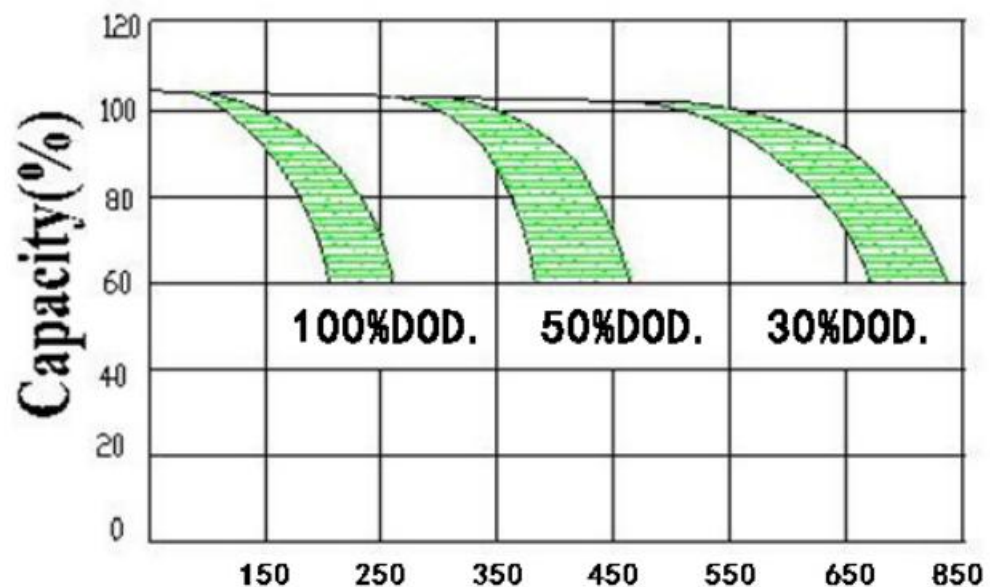

**Amperes at
(77°F/25°C)**


**Watts at
(77°F/25°C)**

**Battery
Construction**

4. PERFORMANCE CHARACTERISTICS

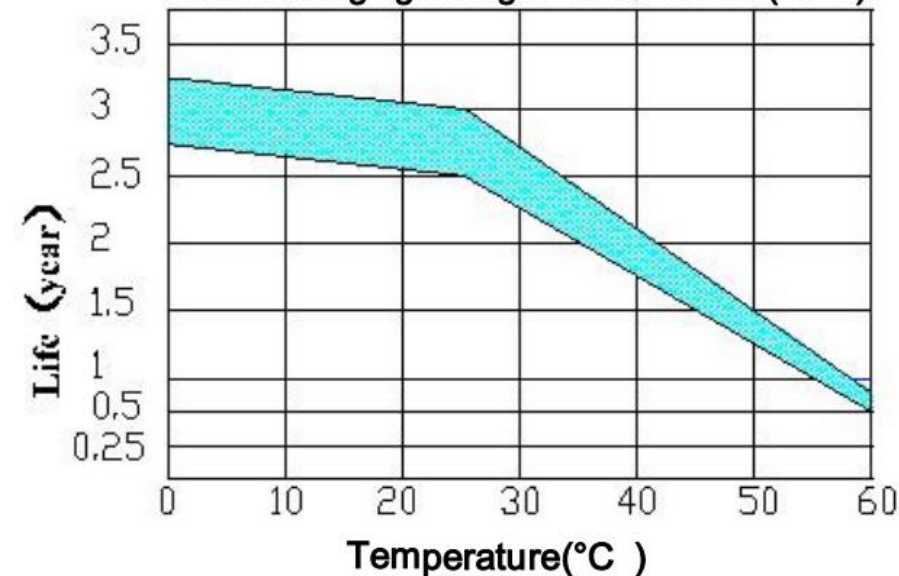
Cycle life vs. Depth of discharge (25°C)



**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)



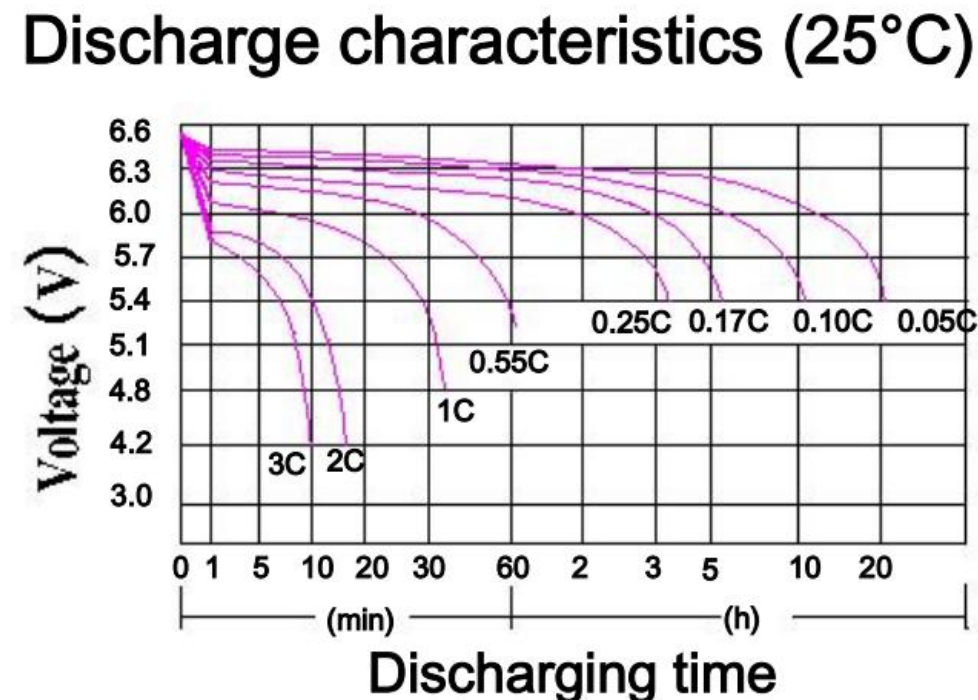
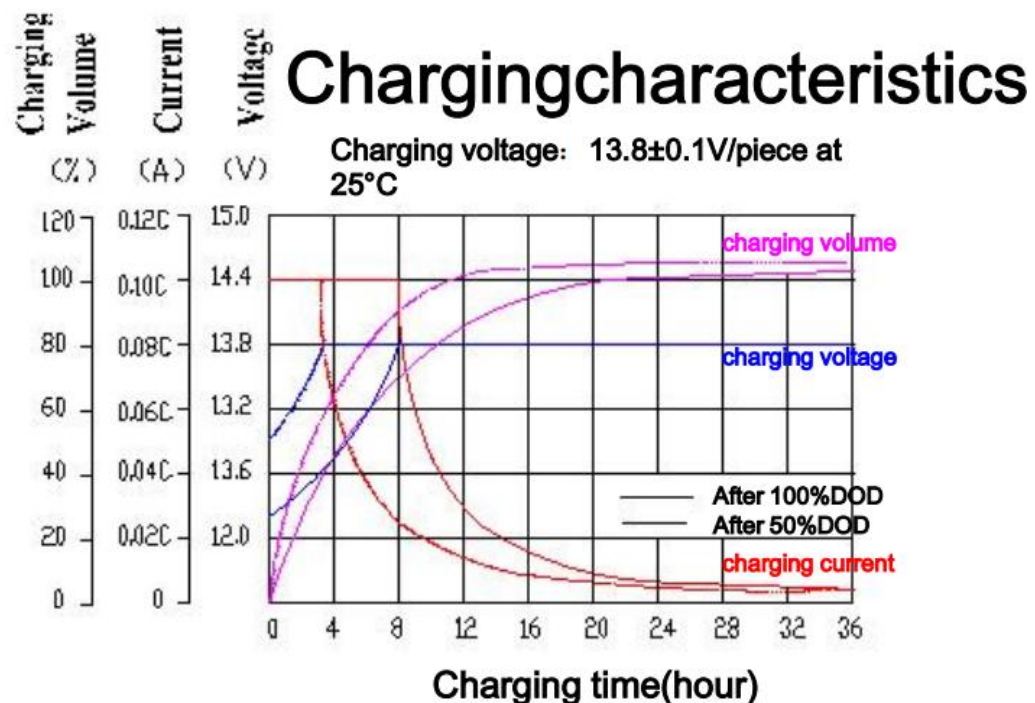
WORKING LIFE: UP TO 3 YEARS

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.

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5. CHARGE AND DISCHARGE CHARACTERISTICS



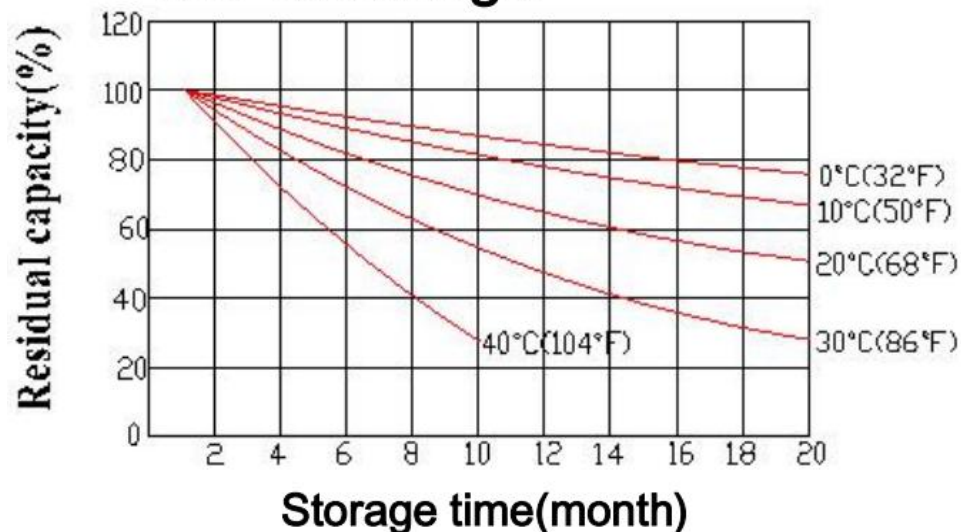
FLOAT TEMPERATURE COMPENSATION COEFFICIENT($25^{\circ}C$): $-2mV/Cell\ C$

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

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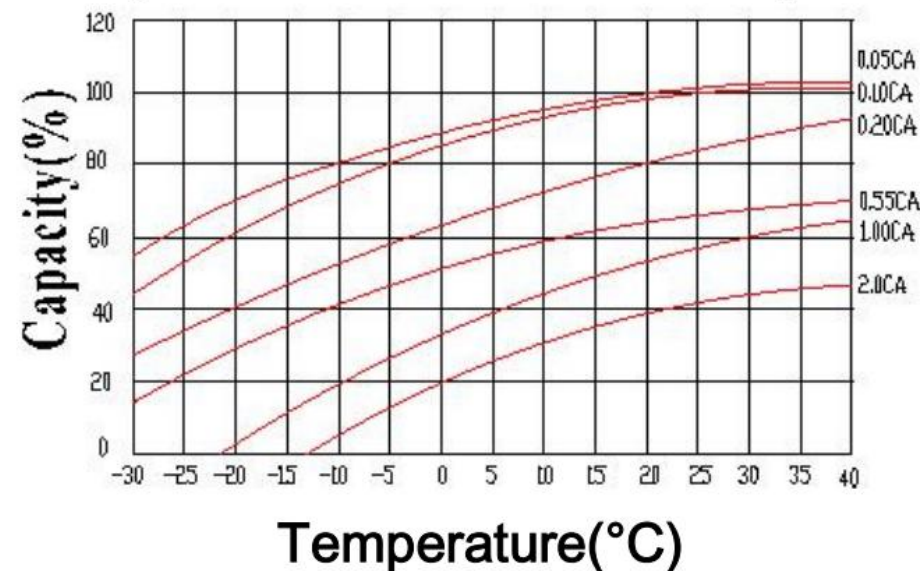
6. TEMPERATURE EFFECTED CHARACTERISTICS

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%

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