

connecting to
LEGACY[®]

GEL VALVE REGULATED RECHARGEABLE BATTERY



MODEL: G12-200(12V 200AH)

SOLAR BATTERY

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA,
ASSEMBLED IN CHINA

 www.connectinglegacy.com

1. PRODUCT DIMENSIONS



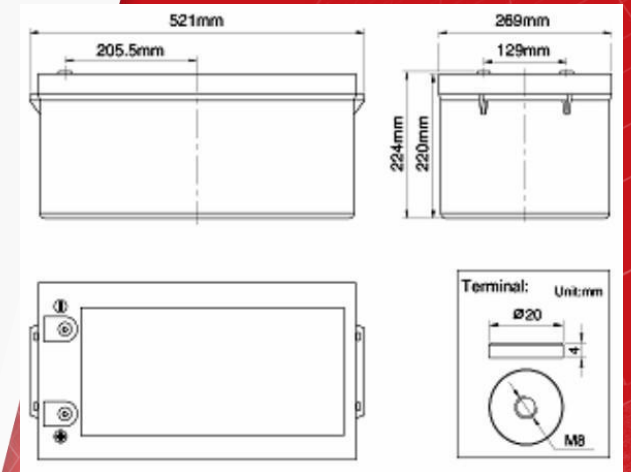
G12-200(12V 200AH)

BATTERY DIMENSION (MM)	LENGTH	522
	WIDTH	240
	HEIGHT	219
	TOTAL HEIGHT	224
BOX DIMENSION (MM)	LENGTH	537
	WIDTH	255
	HEIGHT	299
QUANTITY PER BOX		1PC
N.W PER CELL (KG) ±500g		58.0
N.W PER BOX (KG)		58.0
G.W PER BOX (KG)		59.0

2.PRODUCT CHARACTERISTICS

NOMINAL VOLTAGE		12V
NOMINAL CAPACITY (10 HOUR RATE)		200AH
CAPACITY @25°C (77°F)	20 HOUR RATE(11.0A)	220.0AH
	5 HOUR RATE(35.4A)	177.0AH
	1 HOUR RATE(132A)	132.0AH
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 ≤2.5mΩ
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 40.0A VOLTAGE 13.6-13.8V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 40.0A VOLTAGE 14.4-14.9V

G12-200(12V 200AH)



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	577.9	371.6	309.5	206.4	148.1	132	81.8	55.0	37.4	24.6	22.0	12.1
1.65V	567.4	364.8	303.9	202.6	145.4	129.6	80.4	54.0	36.7	24.2	21.6	11.9
1.70V	556.9	358.1	298.3	198.9	142.7	127.2	78.9	53.0	36.0	23.7	21.2	11.7
1.75V	546.4	351.3	292.7	195.1	140.0	124.8	77.4	52.0	35.4	23.3	20.8	11.4
1.80V	525.4	337.8	281.4	187.6	134.6	120.0	74.4	50.0	34.0	22.4	20.0	11.0



**Amperes at
(77°F/25°C)**

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	1112.5	715.3	595.9	397.2	285.0	254.1	157.5	105.9	72.0	47.4	42.4	23.3
1.65V	1092.3	702.3	585.0	390.0	279.8	249.5	154.7	104.0	70.7	46.6	41.6	22.9
1.70V	1072.1	689.3	574.2	382.8	274.7	244.9	151.8	102.0	69.4	45.7	40.8	22.4
1.75V	1051.9	676.3	563.4	375.6	269.5	240.2	148.9	100.1	68.1	44.8	40.0	22.0
1.80V	1011.4	650.3	541.7	361.1	259.1	231.0	143.2	96.3	65.5	43.1	38.5	21.2



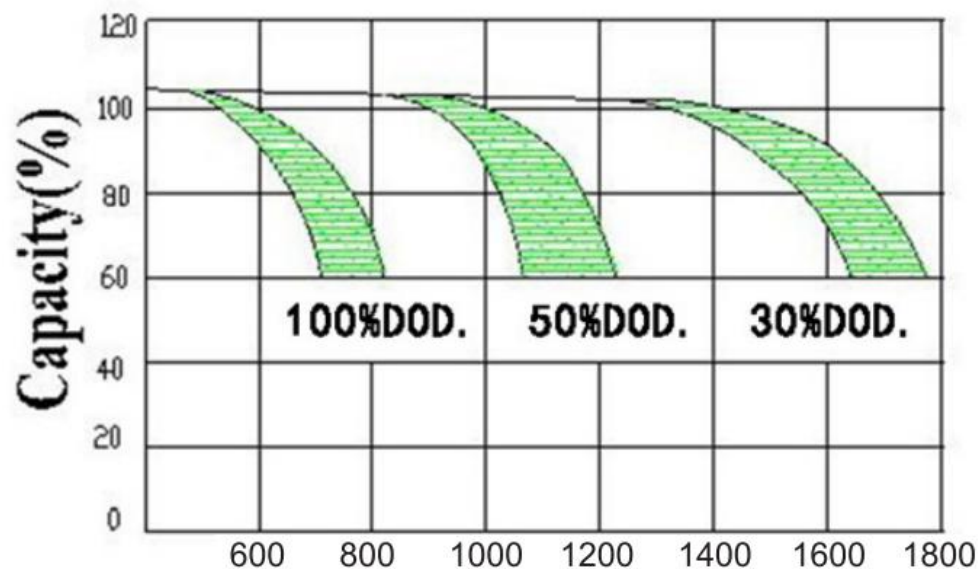
**Watts at
(77°F/25°C)**

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

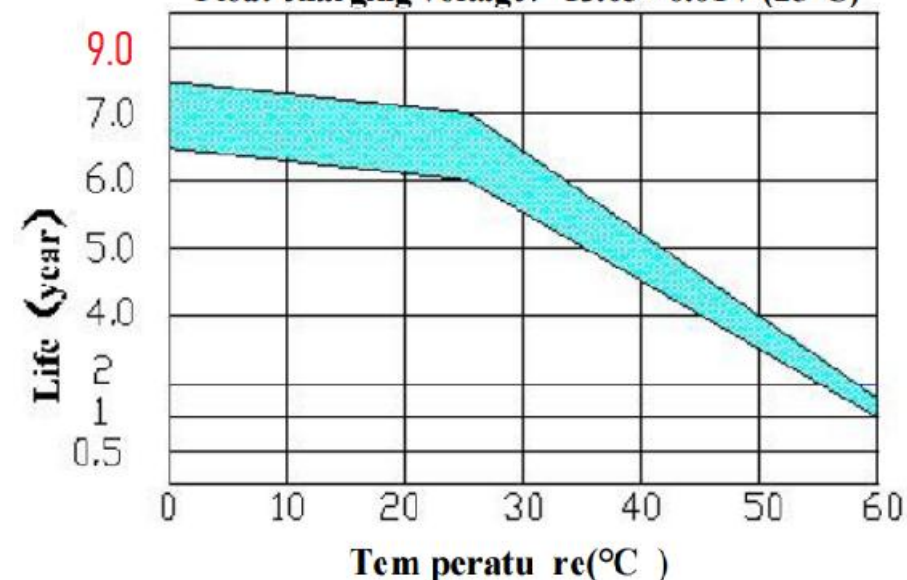
Cycle life vs. Depth of discharge (25°C)



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

Temperature effect on float life

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

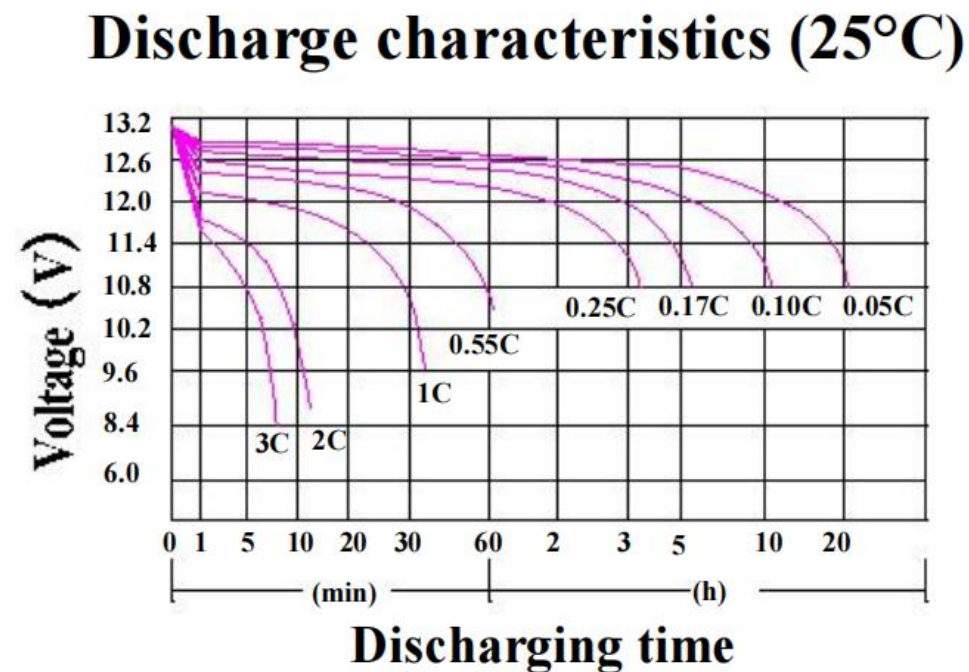
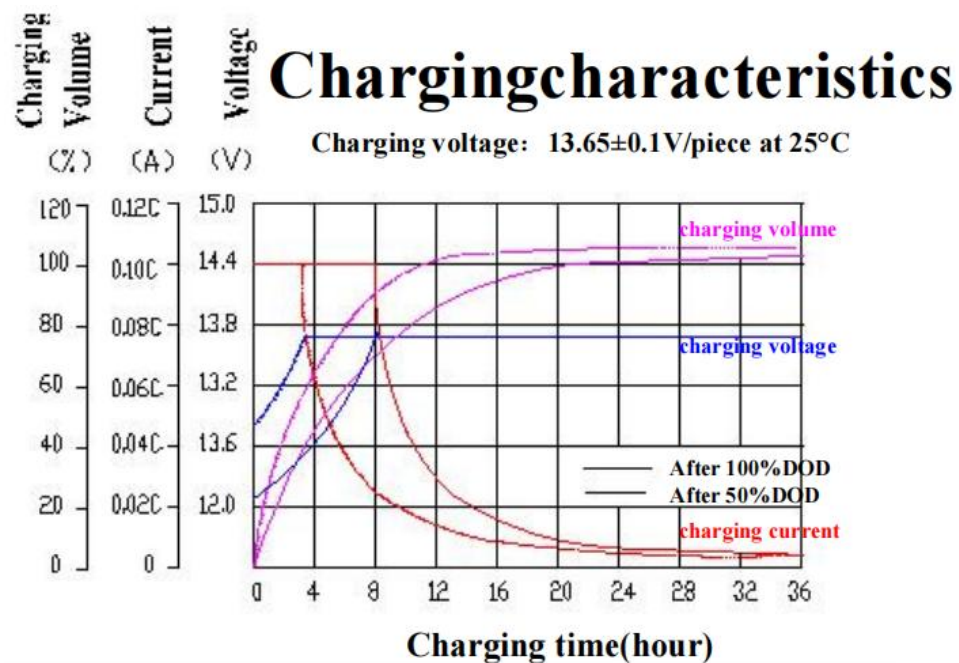


WORKING LIFE: UP TO 8 YEARS

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.

5. CHARGE AND DISCHARGE CHARACTERISTICS



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

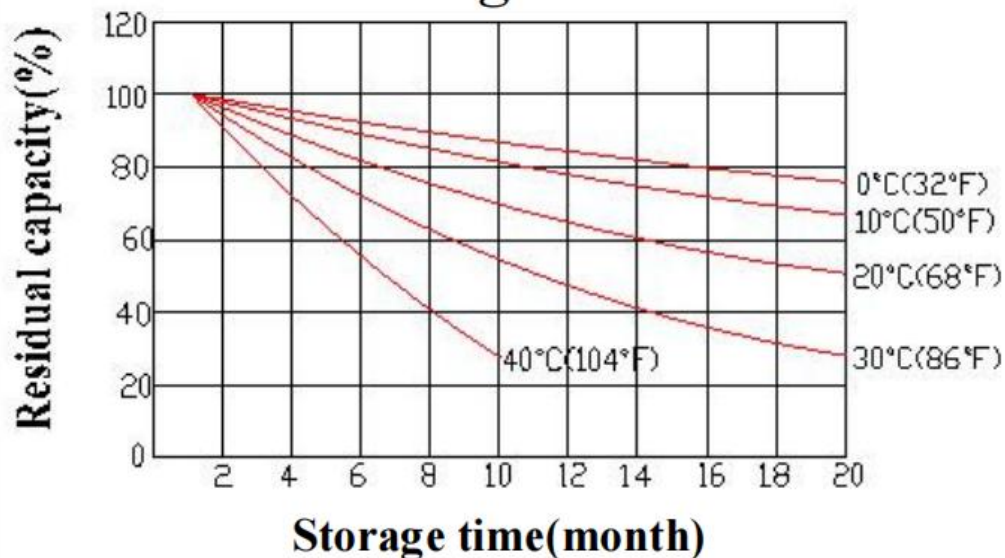
EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT(25°C): $-5\text{mV}/\text{Cell C}$

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6. TEMPERATURE EFFECTED CHARACTERISTICS

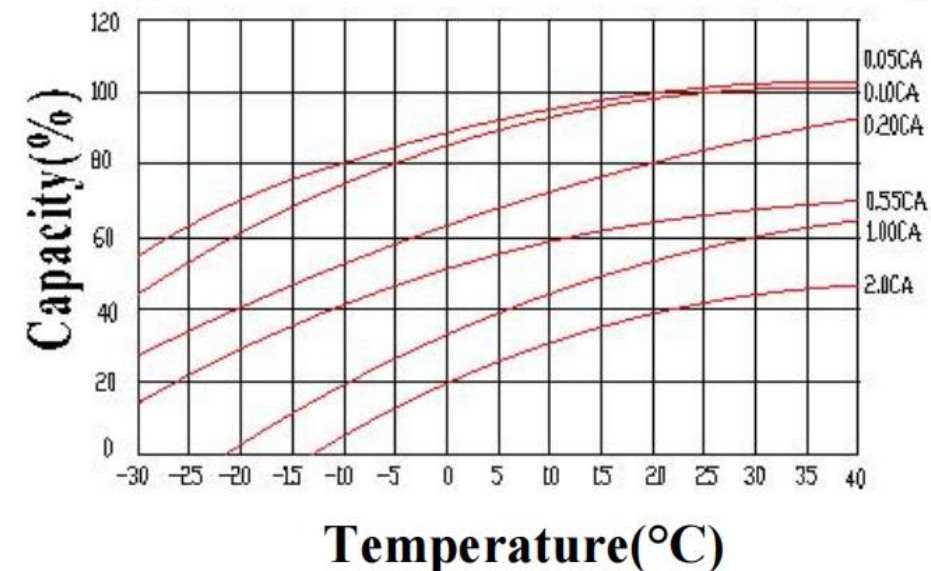
Temperature effect on battery self-discharge



**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:**

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

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