



GEL VALVE REGULATED RECHARGEABLE BATTERY



MODEL: G12-300(12V 300AH)

SOLAR BATTERY

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA,
ASSEMBLED IN CHINA

 www.connectinglegacy.com

1.PRODUCT DIMENSIONS



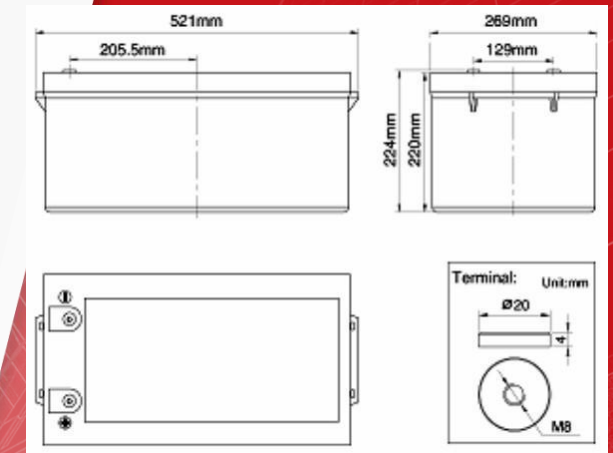
G12-300(12V 300AH)

BATTERY DIMENSION (MM)	LENGTH	521
	WIDTH	269
	HEIGHT	220
	TOTAL HEIGHT	224
BOX DIMENSION (MM)	LENGTH	537
	WIDTH	284
	HEIGHT	299
QUANTITY PER BOX		1PC
N.W PER CELL (KG)±500g		75.0
N.W PER BOX (KG)		75.0
G.W PER BOX (KG)		76.0

2.PRODUCT CHARACTERISTICS

NOMINAL VOLTAGE		12V
NOMINAL CAPACITY (10 HOUR RATE)		300AH
CAPACITY @25°C (77°F)	20 HOUR RATE(13.9A)	278.0AH
	5 HOUR RATE(45.7A)	228.0AH
	1 HOUR RATE(184.8A)	184.8AH
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 ≤2.0mΩ
CHARGE (CONSTANT VOLTAGE) @25°C(77°F)	FLOAT	INITIAL CHARGING CURRENT LESS THAN 50.0A VOLTAGE 13.6-13.8V
	CYCLE	INITIAL CHARGING CURRENT LESS THAN 50.0A VOLTAGE 14.4-14.9V

G12-300(12V 300AH)




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	971.9	654.2	478.4	290.7	211.2	208.5	111.2	83.6	52.8	31.4	28.0	15.6
1.65V	925.6	621.1	454.8	282.1	205.1	202.4	109.0	82.2	52.2	31.1	27.9	15.5
1.70V	903.7	608.4	431.2	273.5	198.8	196.1	107.1	80.6	51.6	31.0	27.7	15.4
1.75V	771.1	520.1	407.6	264.7	192.6	190.0	104.3	78.5	50.9	30.8	27.6	15.3
1.80V	722.5	487.3	387.0	257.9	187.5	185.1	102.3	77.0	50.5	30.7	27.5	14.9

F.V/TIME	5MIN	10MIN	15 MIN	30MIN	45MIN	1H	2H	3H	5H	8H	10H	20H
1.60V	1865.7	1239.5	941.6	589.3	422.8	411.5	228.1	165.5	107.1	65.8	58.8	32.6
1.65V	1728.6	1188.3	904.2	574.0	411.8	400.6	223.9	162.5	105.5	65.2	58.1	32.3
1.70V	1752.8	1164.4	866.8	558.7	400.9	389.9	219.6	159.5	103.8	64.4	57.6	31.9
1.75V	1561.9	1037.3	829.4	543.4	389.9	379.2	214.6	155.7	102.4	63.7	56.9	31.5
1.80V	1476.0	980.2	790.5	527.0	379.2	367.8	208.9	151.7	100.6	62.9	56.2	31.2

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

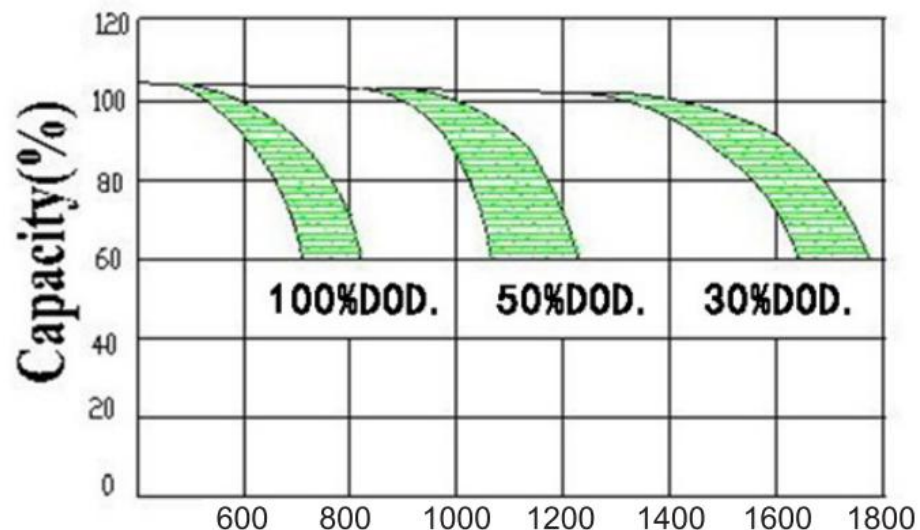

Amperes at (77°F/25°C)


Watts at (77°F/25°C)

Battery construction

4. PERFORMANCE CHARACTERISTICS

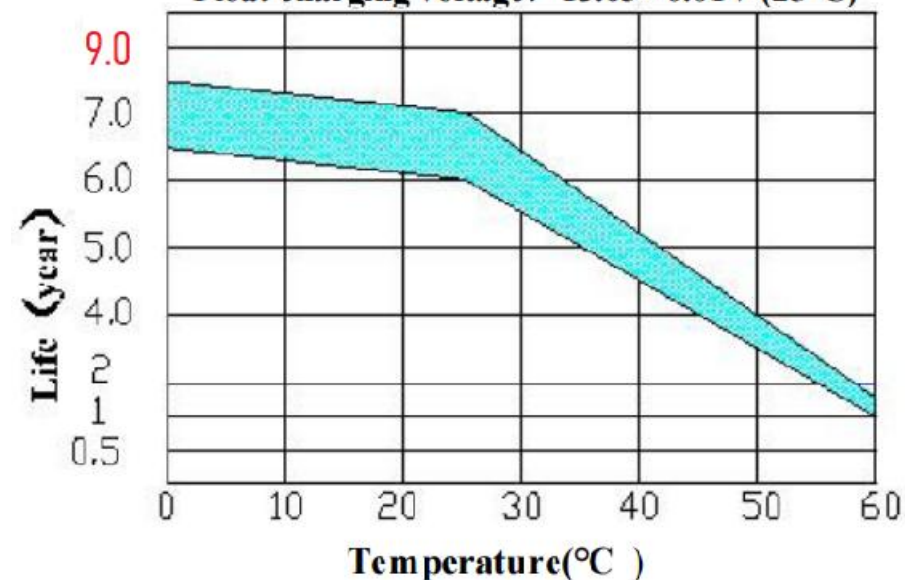
Cycle life vs. Depth of discharge (25°C)



**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)

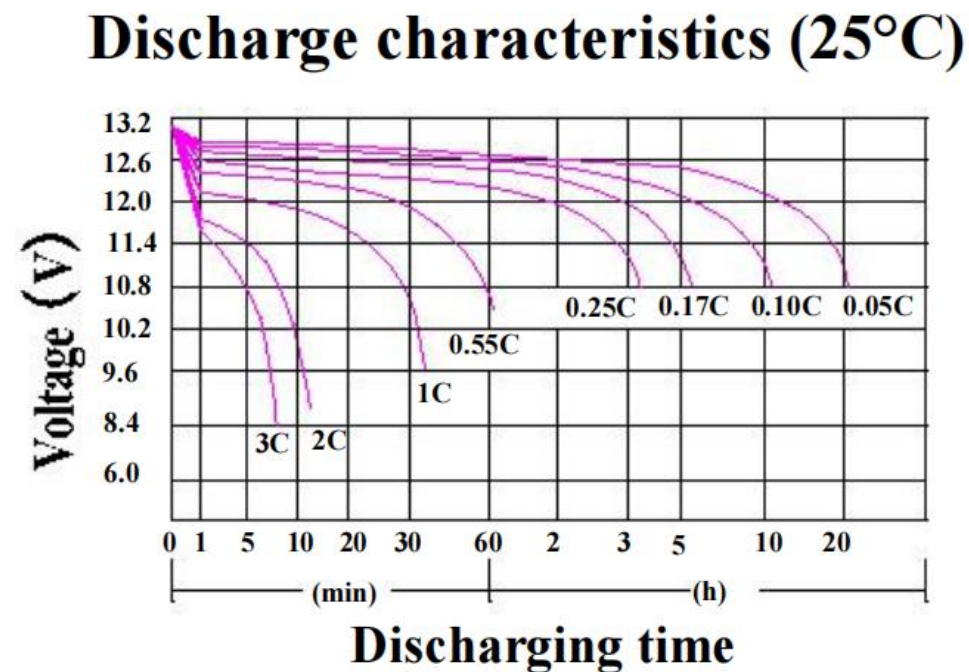
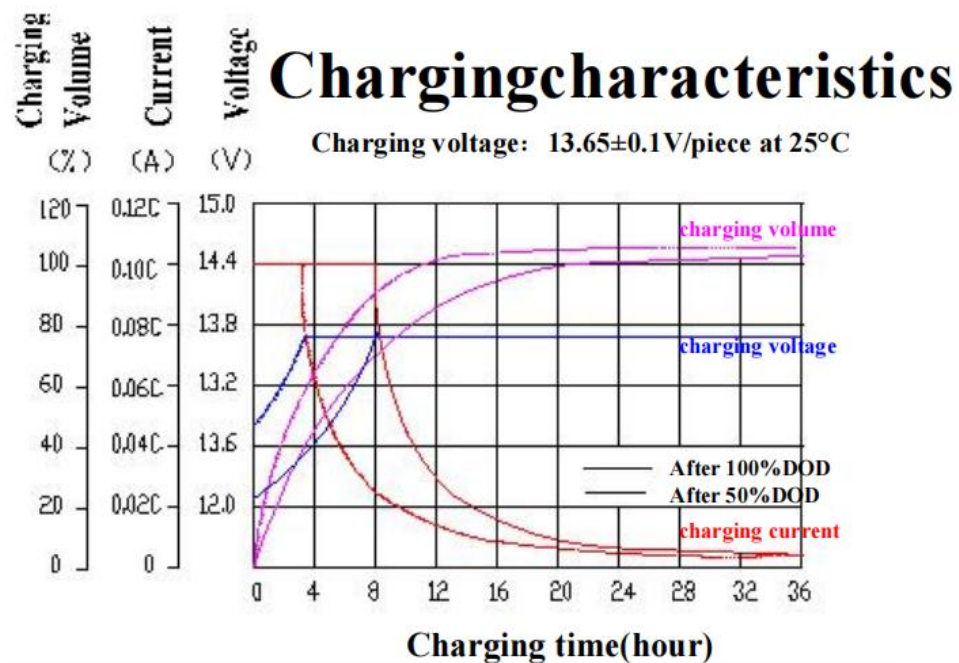


DESIGN LIFE: 8 YEARS

WARRANTY: 2 YEARS

Note: 1) The above data 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): $-2\text{mV}/\text{Cell } ^\circ\text{C}$

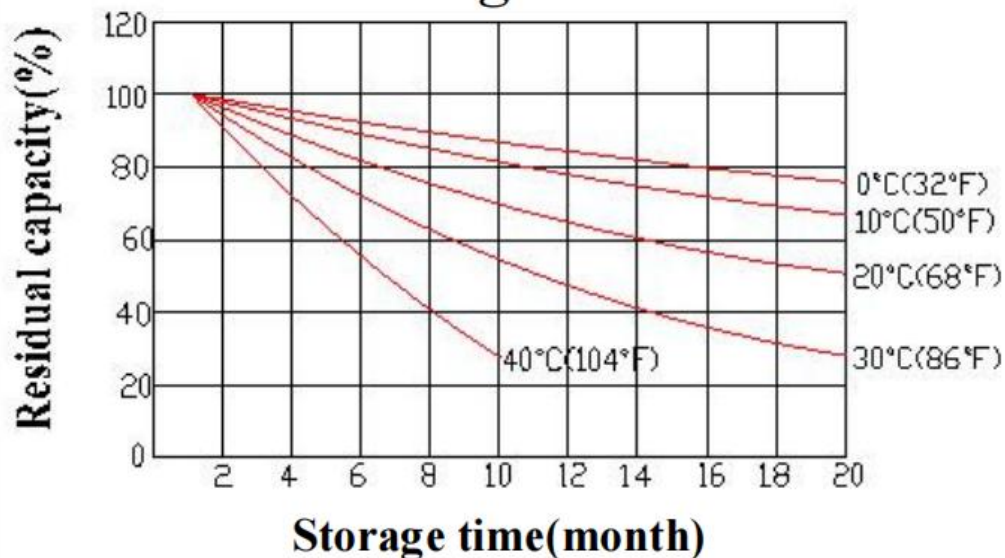
EQUALIZATION TEMPERATURE COMPENSATION COEFFICIENT(25°C): $-5\text{mV}/\text{Cell } ^\circ\text{C}$

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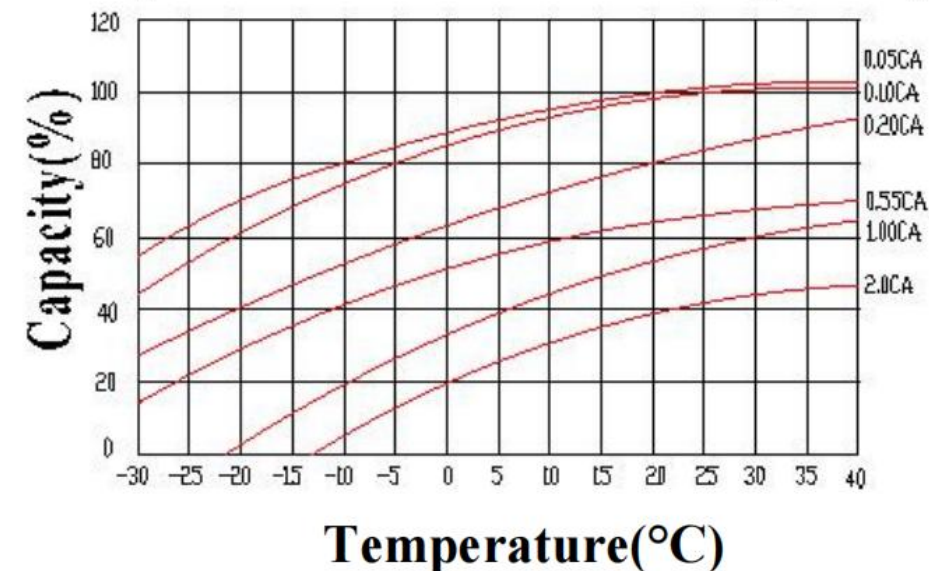
6. TEMPERATURE EFFECTED CHARACTERISTICS

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: (10 HOUR)
40°C : 102%
25°C : 100%
0°C : 85%
-15°C : 65%

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