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# GP 121000 ▶ 12V 100Ah

GP 121000 is a general purpose battery up to 5 years in standby service or more than 260 cycles at 100% discharge in cycle service. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



## ► Specification

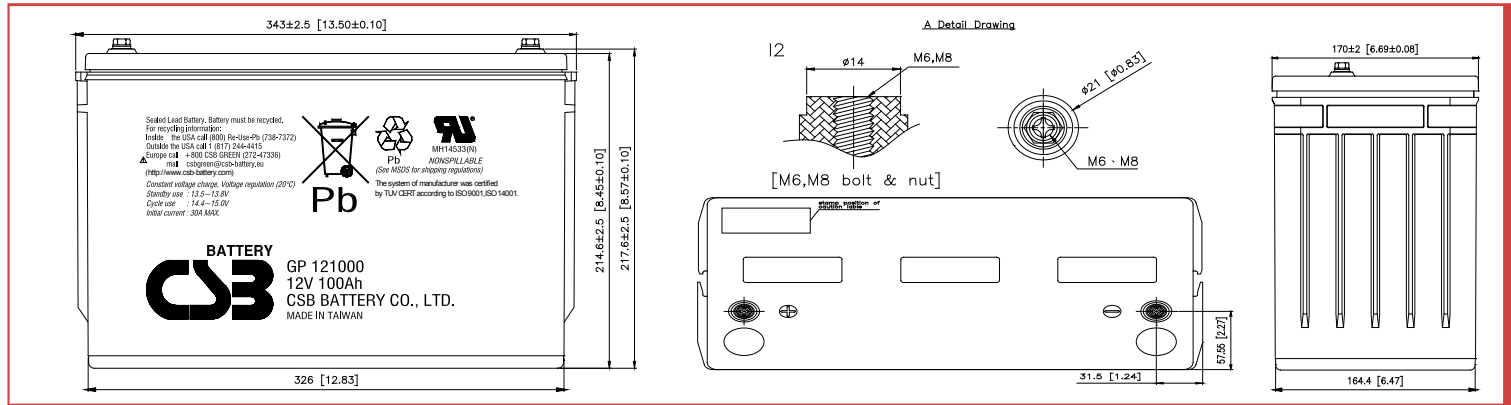
Cells Per Unit	6
Voltage Per Unit	12
Capacity	100Ah@ 20hr-rate to 1.75V per cell @25 °C(77°F)
Weight	Approx. 31.2 kg(68.78 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 4.5 mΩ
Operating Temperature Range	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15 °C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
Nominal Operating Temperature Range	25°C±3°C(77°F±5°F)
Float Charging Voltage	13.5 to 13.8 VDC/unit Average at 25°C(77°F)
Recommended Maximum Charging Current Limit	30A
Equalization and Cycle Service	14.4 to 15.0 VDC/unit Average at 25°C(77°F)
Self Discharge	CSB Batteries can be stored for more than 6 months at 25°C(77°F). Please charge batteries before using. For higher temperatures the time interval will be shorter.
Terminal	I2-Thread lead alloy recessed terminal to accept M6/M8 bolt
Container Material	Polypropylene(UL 94-V0/File E50955)*Flammability resistance of (UL 94-HB/File E216959) can be available upon request.



CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

Dimensions :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	217.6±2.5 (8.57±0.1)	214.6±2.5 (8.45±0.1)	343±2.5 (13.50±0.1)	170±2 (6.69±0.08)



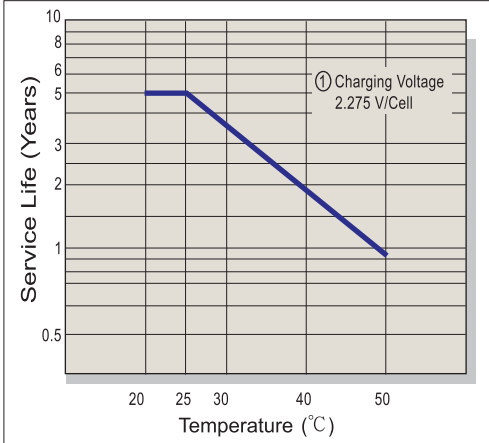
## Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	374	257	197	121	70.1	39.9	29.0	22.7	18.6	12.3	10.1	5.40
1.67V	346	242	187	117	68.8	39.2	28.6	22.3	18.3	12.1	9.94	5.30
1.70V	332	236	183	116	68.1	38.9	28.4	22.0	18.2	12.0	9.86	5.20
1.75V	305	222	175	113	66.8	38.4	27.9	21.7	17.9	11.8	9.72	5.10
1.80V	276	206	164	109	65.4	37.6	27.3	21.2	17.5	11.5	9.59	5.00
1.85V	242	185	152	103	63.5	36.6	26.5	20.7	17.1	11.3	9.40	4.80

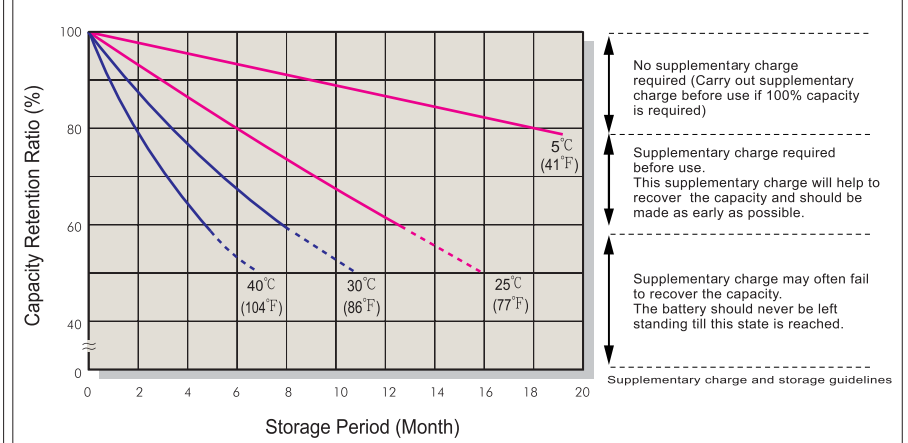
## Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	4023	2838	2223	1366	802	459	335	263	216	143	117	61.1
1.67V	3690	2659	2094	1325	785	453	328	260	213	141	115	60.5
1.70V	3516	2578	2036	1306	778	449	325	258	211	140	114	60.0
1.75V	3242	2420	1931	1267	763	441	320	254	208	138	113	59.5
1.80V	2927	2228	1815	1218	746	432	313	248	203	135	111	58.9
1.85V	2601	2024	1698	1165	725	422	306	240	198	132	109	56.6

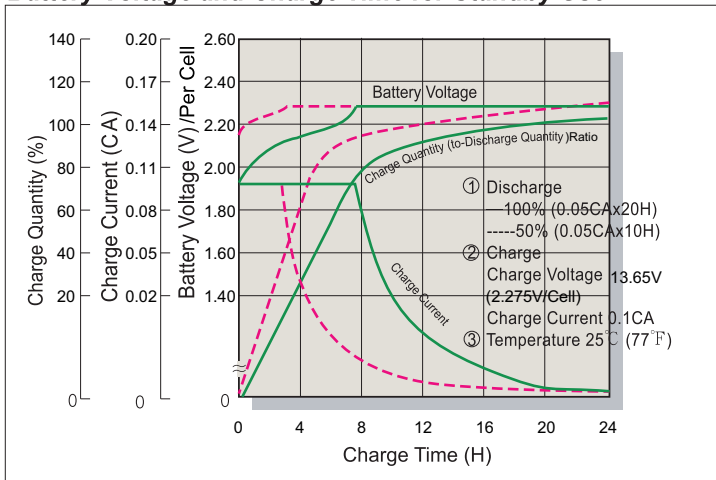
### Trickle (or Float) Service Life



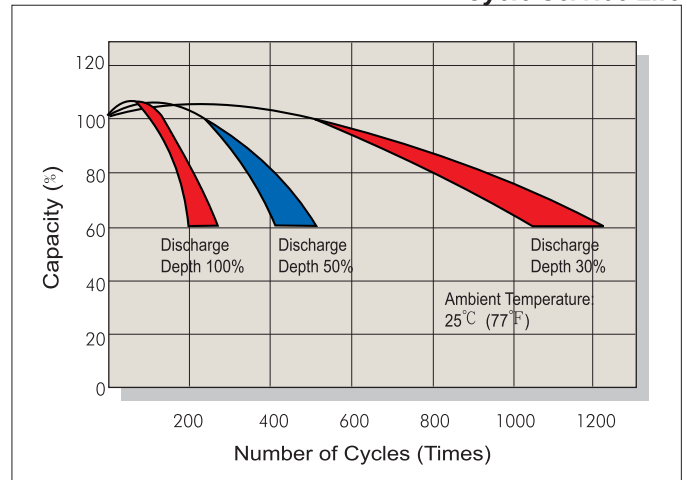
### Capacity Retention Characteristic



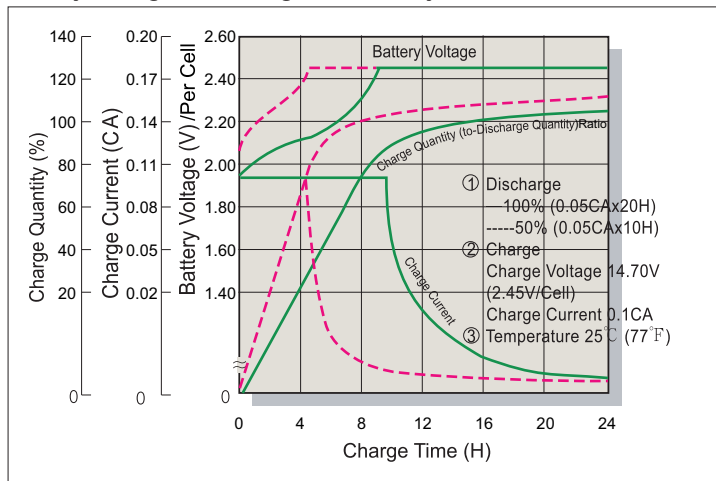
### Battery Voltage and Charge Time for Standby Use



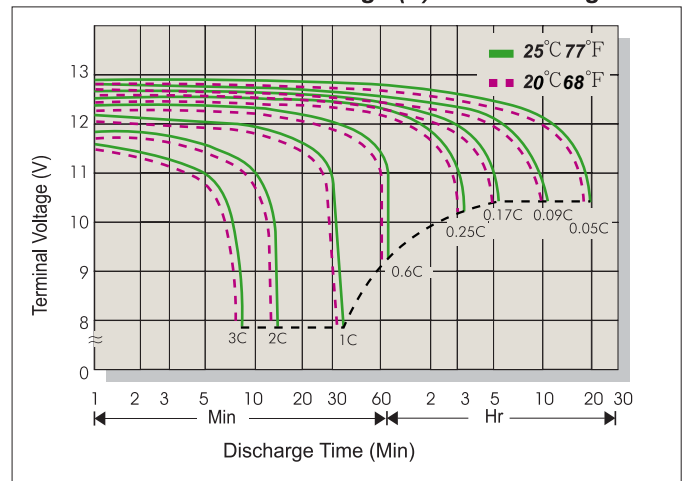
### Cycle Service Life



### Battery Voltage and Charge Time for Cycle Use



### Terminal Voltage (V) and Discharge Time



### Charging Procedures

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C (77°F)	2.45	2.40~2.50	0.3C
Standby	25°C (77°F)	2.275	2.25~2.30	

### Discharge Current VS. Discharge Voltage

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C

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