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# GPL 121000 ▶ 12V 100Ah

GPL 121000 is a general purpose battery up to 10 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

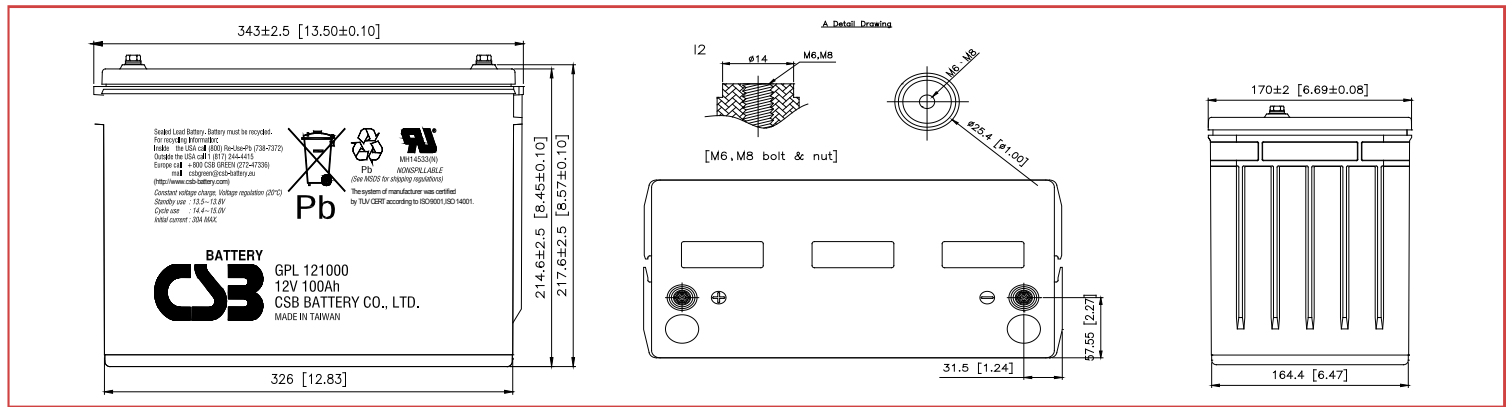
<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	100Ah @ 20hr-rate to 1.75V per cell @25°C (77°F)
<b>Weight</b>	Approx. 33.5 kg(73.86 lbs)
<b>Maximum Discharge Current</b>	800A(5sec)
<b>Internal Resistance</b>	Approx. 3.5 mΩ
<b>Operating Temperature Range</b>	Discharge: -15°C~50°C ( 5°F~122°F) Charge: -15°C~40°C ( 5°F~104°F) Storage: -15°C~40°C ( 5°F~104°F)
<b>Nominal Operating Temperature Range</b>	25°C±3°C (77°F±5°F)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
<b>Recommended Maximum Charging Current Limit</b>	30 A
<b>Equalization and Cycle Service</b>	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
<b>Self Discharge</b>	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.
<b>Terminal</b>	I2-Thread lead alloy recessed terminal to accept M6/M8 bolt
<b>Container Material</b>	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 (13.5±0.1)	170±2 (6.69±0.08)



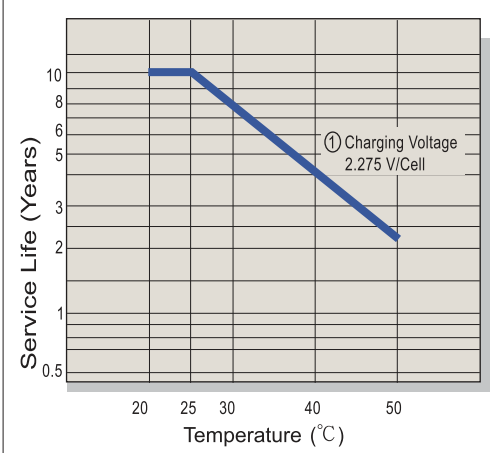
## Constant Current Discharge Characteristics Unit:A (25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	423	277	212	127	73.0	52.1	41.1	29.1	18.9	12.2	10.0	5.27
1.67V	375	266	207	125	72.4	51.7	40.7	29.0	18.8	12.1	9.93	5.22
1.70V	355	258	203	124	71.8	51.4	40.6	28.7	18.6	12.0	9.88	5.20
1.75V	317	240	194	120	71.1	50.9	40.2	28.6	18.5	11.9	9.81	5.19
1.80V	283	219	183	115	68.9	49.6	39.3	27.9	18.2	11.8	9.66	5.09
1.85V	245	196	164	106	65.2	47.2	37.6	26.8	17.4	11.4	9.45	4.92

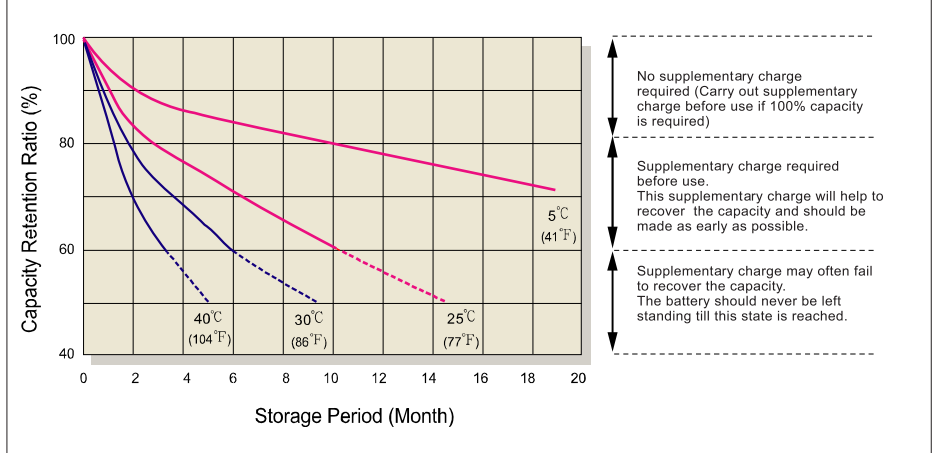
## Constant Power Discharge Characteristics Unit:W (25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	4159	2950	2331	1436	849	610	482	342	223	153	125	63.5
1.67V	4008	2837	2273	1417	843	607	480	340	222	152	124	63.3
1.70V	3863	2772	2252	1404	840	604	478	339	221	151	123	63.2
1.75V	3572	2623	2181	1372	830	599	475	337	220	150	122	62.4
1.80V	3184	2442	2049	1316	809	585	465	331	217	148	121	61.4
1.85V	2769	2227	1856	1234	767	557	444	320	210	142	117	60.0

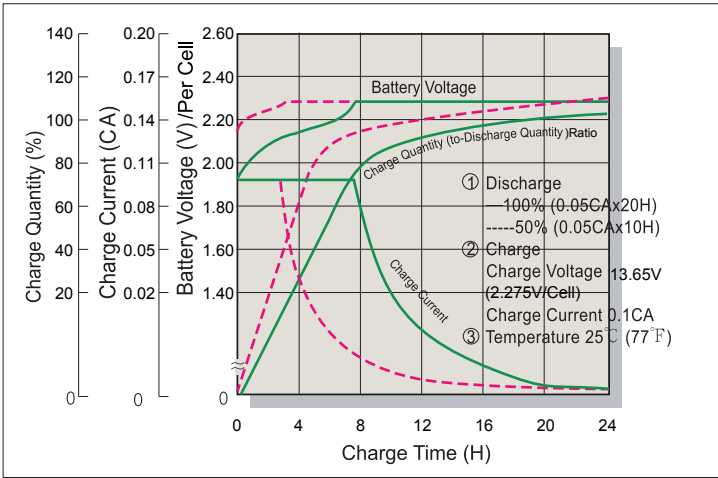
### Trickle (or Float) Service Life



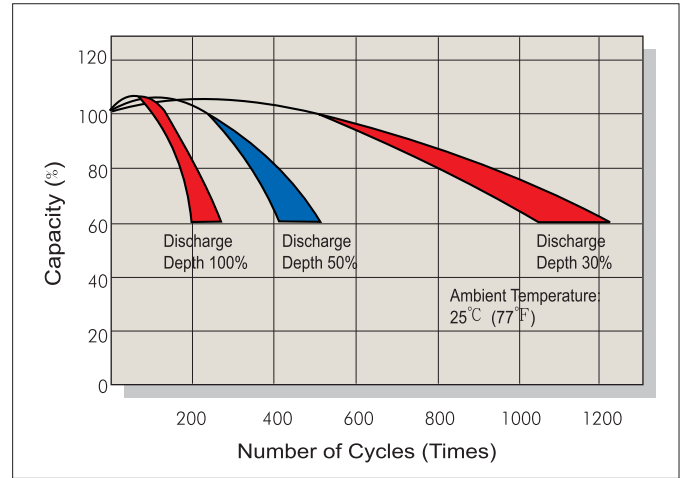
### Capacity Retention Characteristic



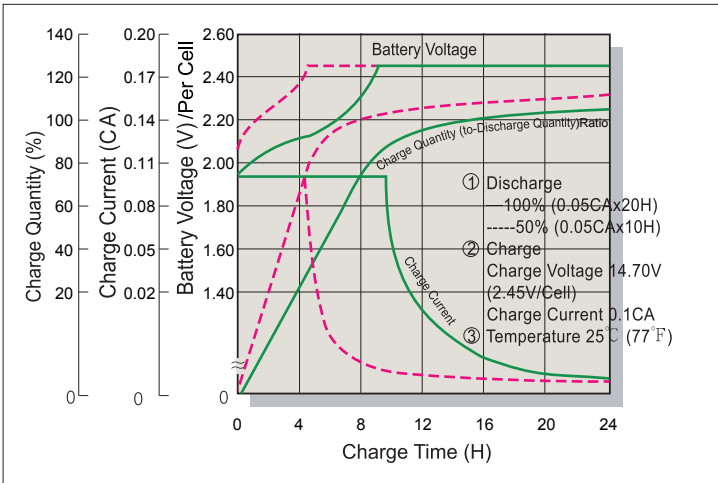
### Battery Voltage and Charge Time for Standby Use



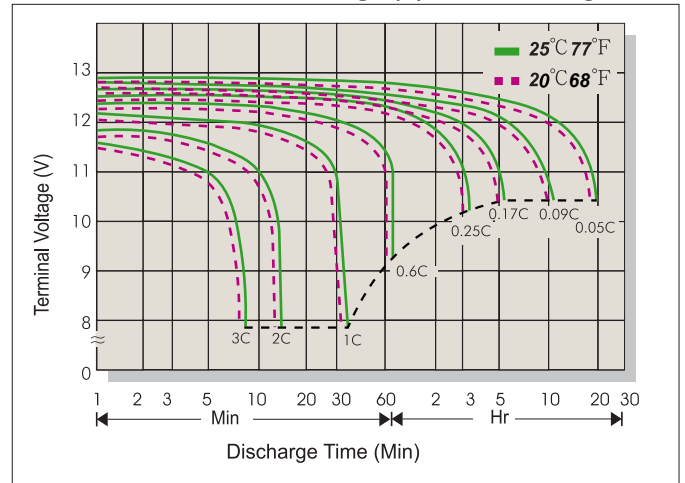
### Cycle Service Life



### 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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