



GPL 121000

12V 100Ah

GPL 121000 is a general purpose battery up to 10 years expected life under normal float charge. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



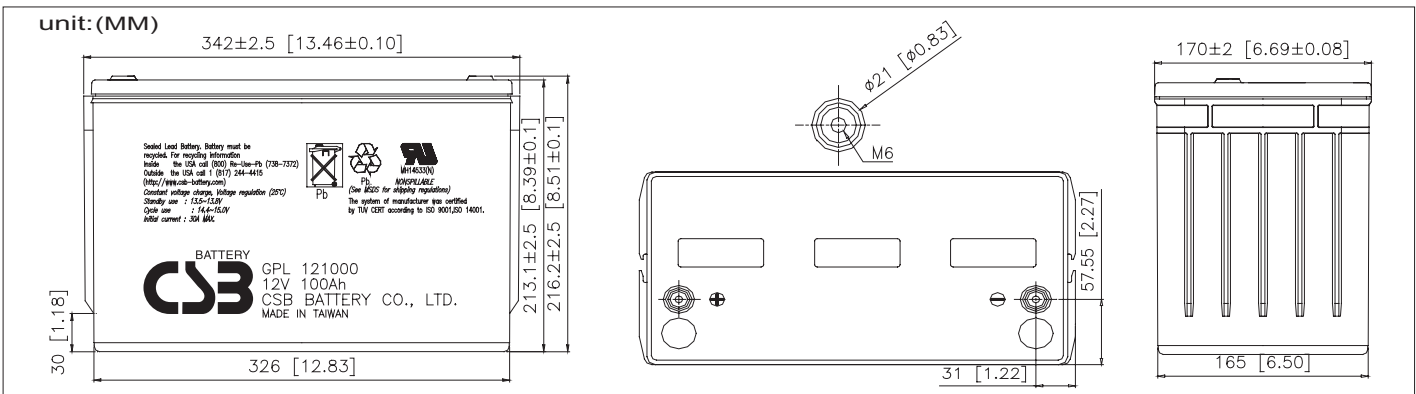
Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	100Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 33.5 kg(73.86 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 3.5mΩ
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	30A
Current Limit	
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 bolt
Container Material	Polypropylene(UL 94-V0/File E50955)*Flammability resistance of (UL 94-HB/File E216959) can be available upon request.



CSB-manufactured batteries are UL-recognized components under UL924 and UL1989. CSB is also certified by ISO 9001 and ISO 14001.

Dimensions



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

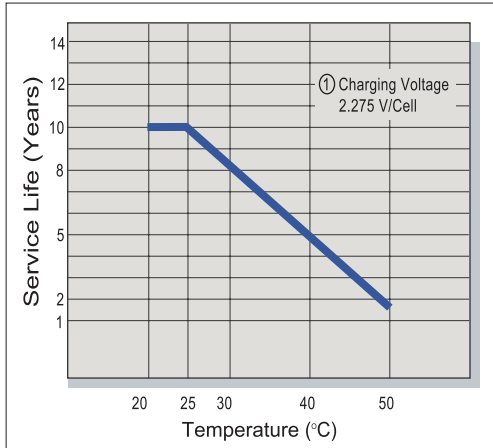
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	433	287	214	124	71.2	40.3	28.7	22.3	18.4	12.5	10.5	5.42
1.67V	388	263	198	120	69.7	39.7	28.2	22.0	18.2	12.4	10.4	5.38
1.70V	366	253	193	118	69.0	39.4	28.0	21.9	18.1	12.3	10.3	5.36
1.75V	330	234	183	113	67.6	38.8	27.5	21.6	17.9	12.1	10.2	5.31
1.80V	290	215	171	108	65.6	38.1	26.9	21.2	17.7	11.9	10.0	5.25
1.85V	250	196	161	103	63.6	37.5	26.4	20.9	17.3	11.7	9.80	5.20

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

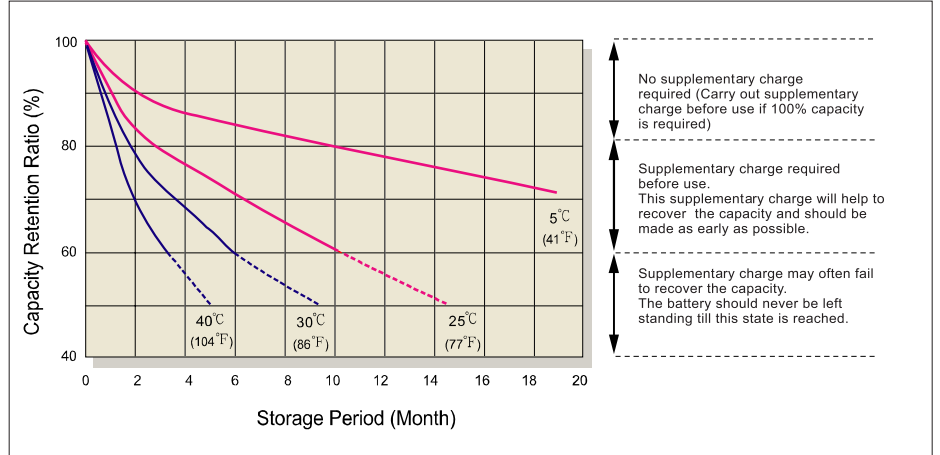
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	4,560	3,150	2,371	1,420	830	472	337	263	218	149	126	71.0
1.67V	4,162	2,905	2,223	1,368	814	465	333	262	216	148	125	70.6
1.70V	3,972	2,783	2,150	1,342	806	461	331	261	214	147	124	70.4
1.75V	3,625	2,580	2,037	1,290	789	454	326	257	213	146	123	69.2
1.80V	3,251	2,360	1,897	1,238	773	445	320	252	212	143	121	67.9
1.85V	2,855	2,140	1,774	1,185	753	437	315	248	207	141	119	66.7

● All mentioned values are average values.

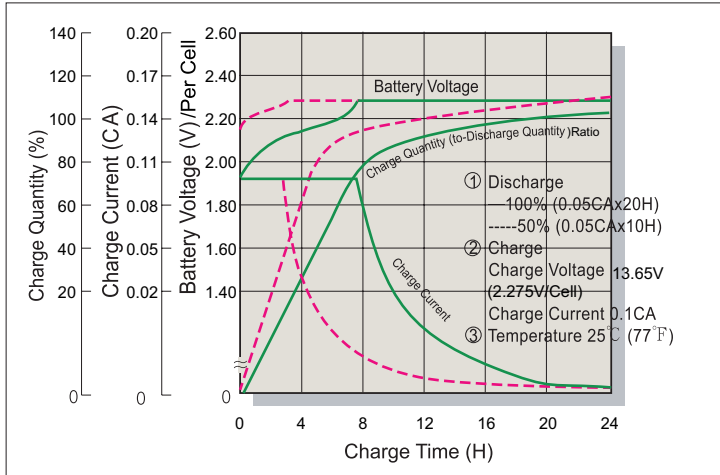
Trickle (or Float) Service Life



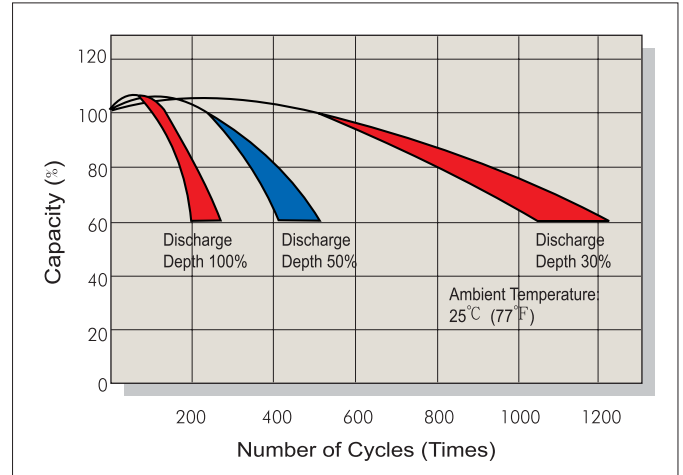
Capacity Retention Characteristic



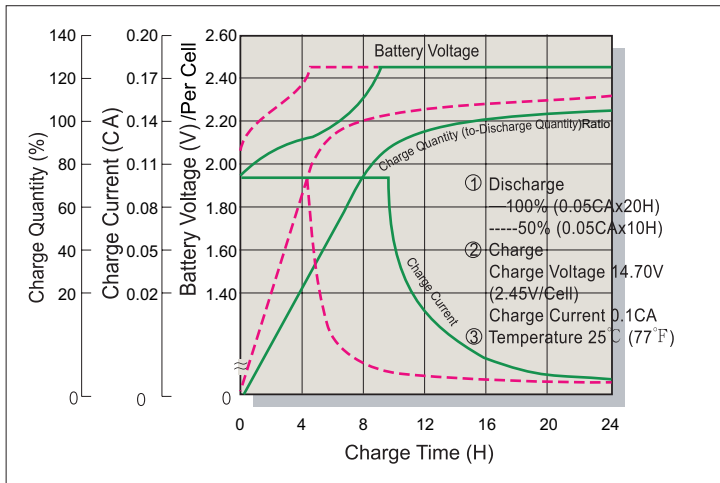
Battery Voltage and Charge Time for Standby Use



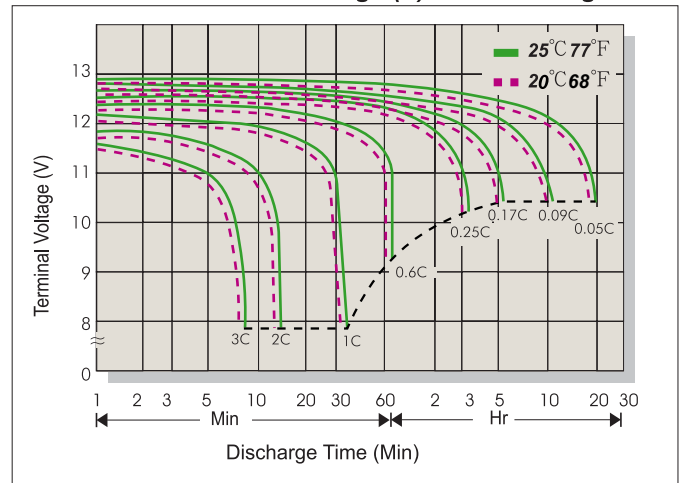
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



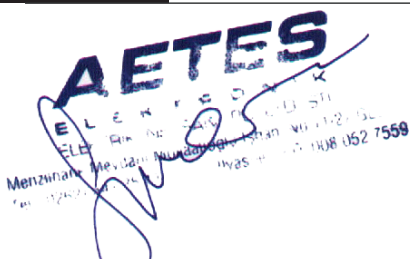
Charging Procedures

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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