

GP 12170

12V 17.0Ah

GP 12170 is a general purpose battery with 3-5 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

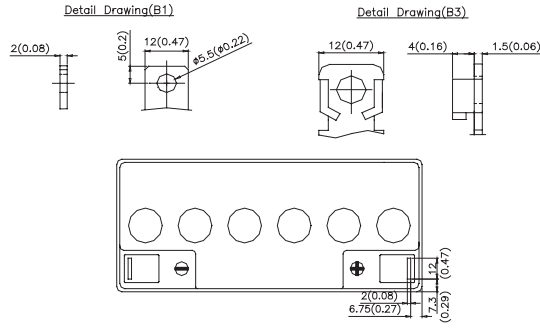
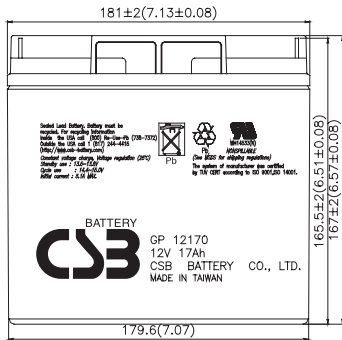
Cells Per Unit	6
Voltage Per Unit	12
Capacity	17Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 5.9kg(13.0 lbs)
Maximum Discharge Current	230A(5sec)
Internal Resistance	Approx. 15mΩ
Operating Temperature Range	Discharge: -20°C~50°C (-4°F~122°F) Charge: 0°C~40°C (32°F~104°F) Storage: -20°C~40°C (-4°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	5.1A
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	Bolt & Nut
Container Material	-ABS (UL94-HB)*Flammability resistance of UL94-V2 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

unit: (MM)



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

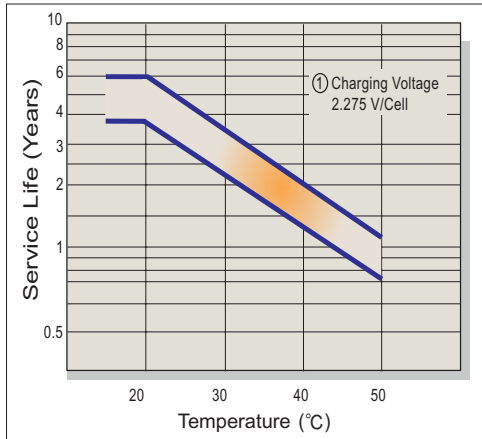
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	80.2	50.9	38.5	23.4	13.8	8.03	5.72	4.44	3.63	2.37	1.93	1.00
1.67V	71.2	47.5	36.8	23.1	13.8	8.03	5.71	4.43	3.62	2.36	1.90	0.96
1.70V	67.4	46.0	36.0	22.9	13.8	8.03	5.70	4.43	3.61	2.35	1.89	0.94
1.75V	61.0	43.1	34.3	22.3	13.5	7.96	5.66	4.41	3.60	2.33	1.86	0.91
1.80V	54.5	40.2	32.7	21.8	13.3	7.88	5.61	4.38	3.58	2.30	1.83	0.88
1.85V	48.0	37.3	31.0	21.2	13.1	7.81	5.57	4.36	3.57	2.28	1.80	0.85

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

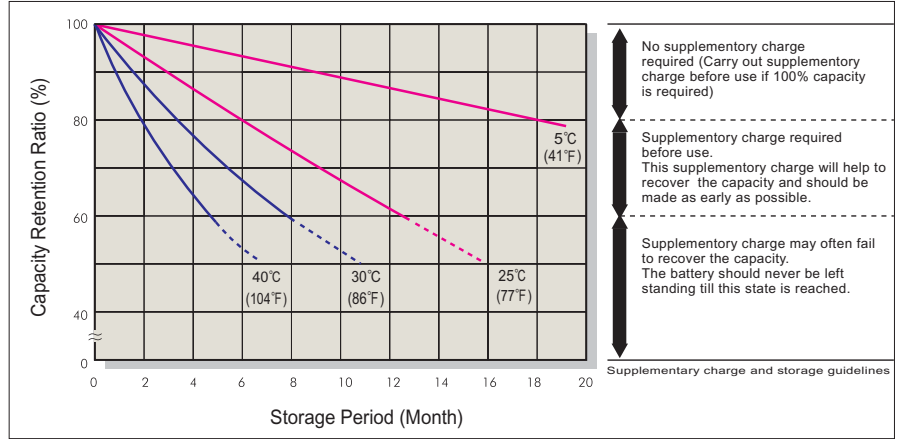
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	962	611	462	281	166	96.4	68.6	53.3	43.6	28.4	23.1	12
1.67V	855	570	441	277	165	96.3	68.5	53.2	43.4	28.3	22.8	11.5
1.70V	809	552	432	275	165	96.3	68.4	53.2	43.3	28.2	22.7	11.3
1.75V	732	517	412	268	163	95.5	67.9	52.9	43.2	27.9	22.4	10.9
1.80V	654	482	392	261	160	94.6	67.3	52.6	43	27.6	22	10.5
1.85V	577	447	372	254	158	93.8	66.8	52.3	42.9	27.3	21.7	10.1

• All mentioned values are average values.

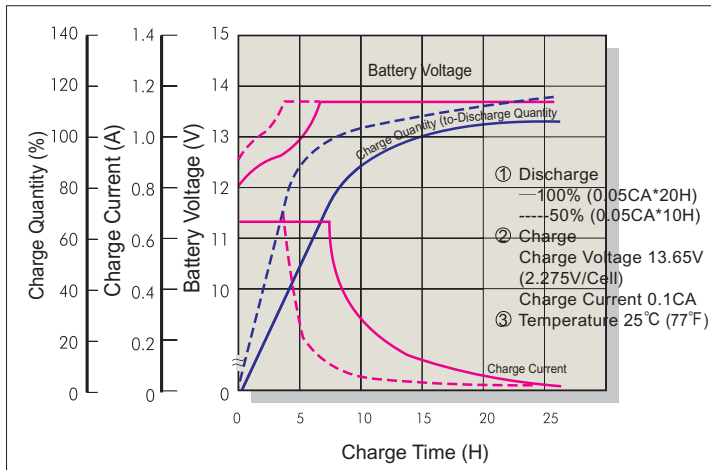
Trickle (or Float) Service Life



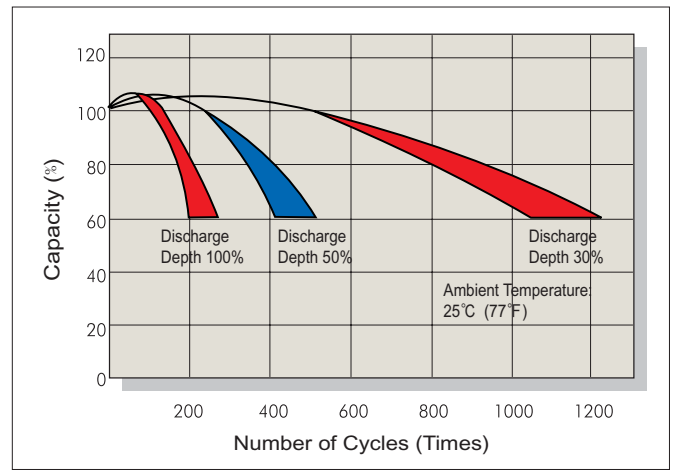
Capacity Retention Characteristic



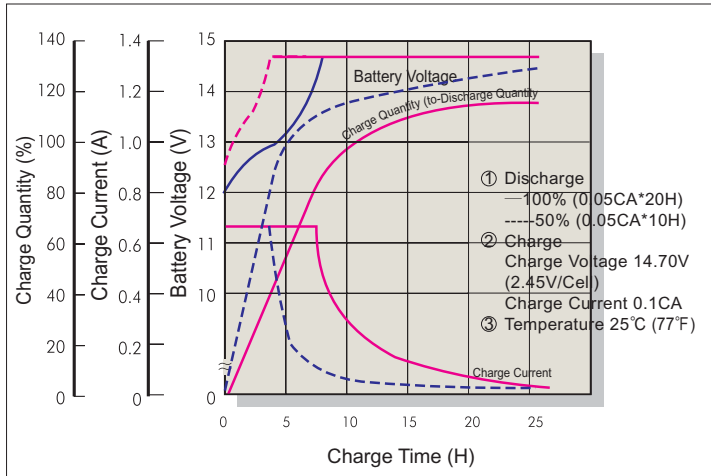
Battery Voltage and Charge Time for Standby Use



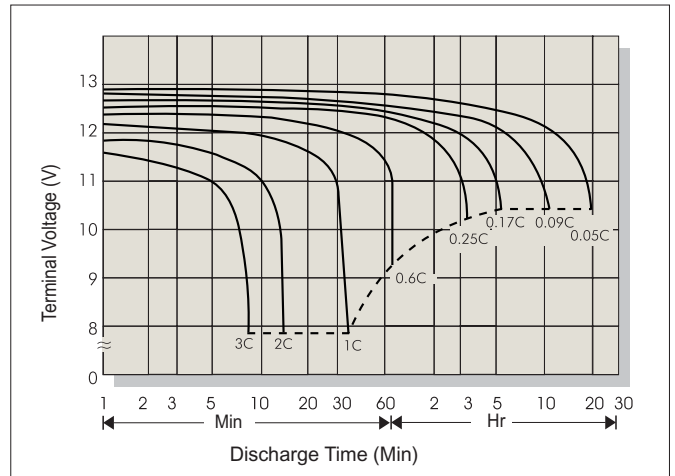
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time (25°C 77°F)



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	1.55	1.30
Discharge Current (A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C