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# GP 6120 ▶ 6V 12Ah

GP 6120 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

CellsPerUnit	3
Voltage PerUnit	6
Capacity	12Ah@20hr-rateto1.75Vpercell @25°C (77°F)
Weight	Approx.1.85 kg(4.08 lbs)
Maximum DischargeCurrent	150A/180A(5sec)
Internal Resistance	Approx.8.5 m?
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)
FloatCharging Voltage	6.75to6.9VDC/unitAverage at 25°C (77°F)
RecommendedMaximum Charging CurrentLimit	3.6A
Equalization andCycleService	7.2to7.5VDC/unitAverage at 25°C (77°F)
SelfDischarge	CSBBatteries canbestoredformorethan6months at 25°C (77°F). Pleasecharge batteries beforeusing. For hightemperatures thertimeinterval willbeshorter.
Terminal	F1/F2-Faston Tab187/250
Container Material	ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



MH14533(N)



ISO9001  
No.:041005117



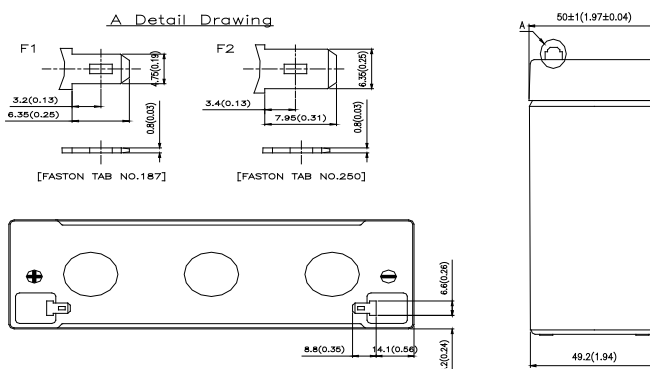
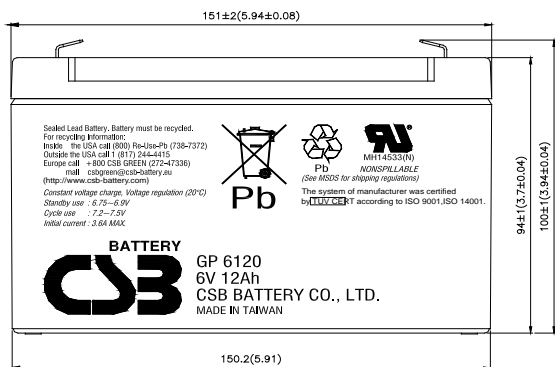
ISO 14001  
NO.UM 1-12-0045

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

CSB is also certified by ISO9001 and ISO14001.

## ► Dimensions :

Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	100±1 (3.94±0.04)	94±1 (3.7±0.04)	151±2 (5.94±0.08)
		151±2 (5.94±0.08)	50±1 (1.97±0.04)



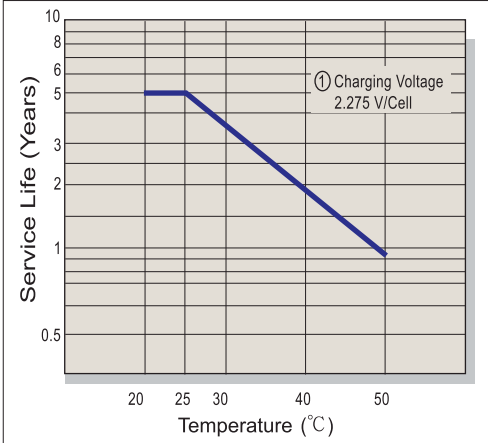
## Constant Current Discharge Characteristics Unit:A (25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	51.2	33.2	23.9	13.9	8.14	5.90	4.69	3.37	2.24	1.45	1.19	0.62
1.67V	48.2	32.0	23.6	13.7	8.12	5.84	4.62	3.35	2.21	1.44	1.18	0.61
1.70V	46.3	31.6	23.3	13.6	8.08	5.82	4.61	3.32	2.18	1.43	1.17	0.61
1.75V	43.3	30.0	22.6	13.4	8.03	5.77	4.57	3.26	2.13	1.40	1.15	0.61
1.80V	38.8	28.0	21.5	13.0	7.81	5.64	4.48	3.17	2.06	1.37	1.14	0.59
1.85V	34.2	25.3	19.8	12.3	7.51	5.41	4.29	3.03	1.97	1.32	1.09	0.57

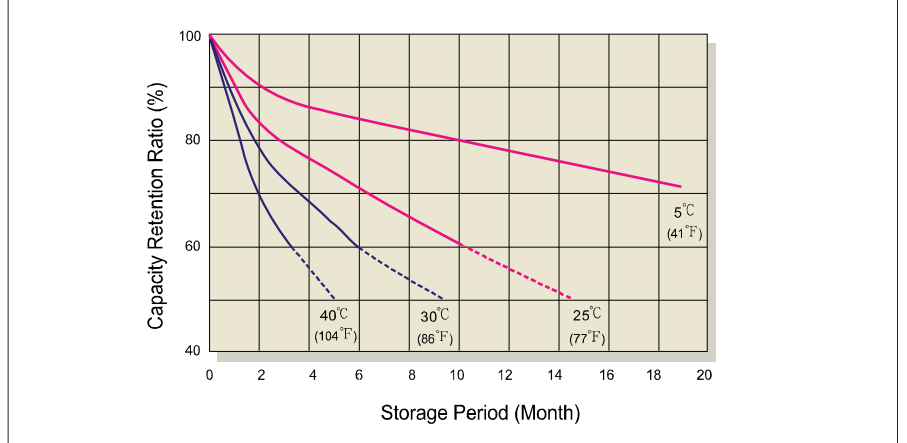
## Constant Power Discharge Characteristics Unit:W (25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	269	173	134	79.8	48.9	35.3	28.0	19.8	12.7	8.36	6.91	3.85
1.67V	257	171	132	79.6	48.8	35.1	27.8	19.7	12.6	8.30	6.85	3.81
1.70V	250	168	131	78.8	48.5	35.0	27.7	19.5	12.5	8.25	6.80	3.80
1.75V	231	163	128	78.1	48.1	34.6	27.5	19.3	12.2	8.12	6.69	3.77
1.80V	209	153	121	76.3	47.4	34.0	26.8	18.9	12.0	7.91	6.52	3.71
1.85V	185	140	111	72.2	45.8	33.1	26.3	18.1	11.7	7.73	6.36	3.61

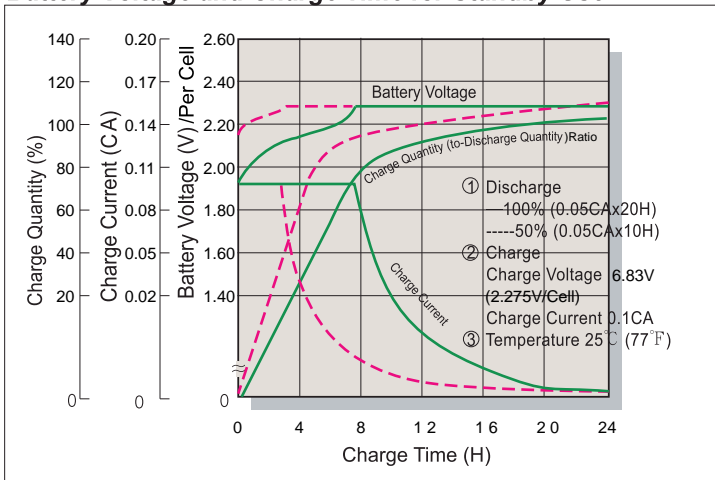
### Trickle (or Float) Service Life



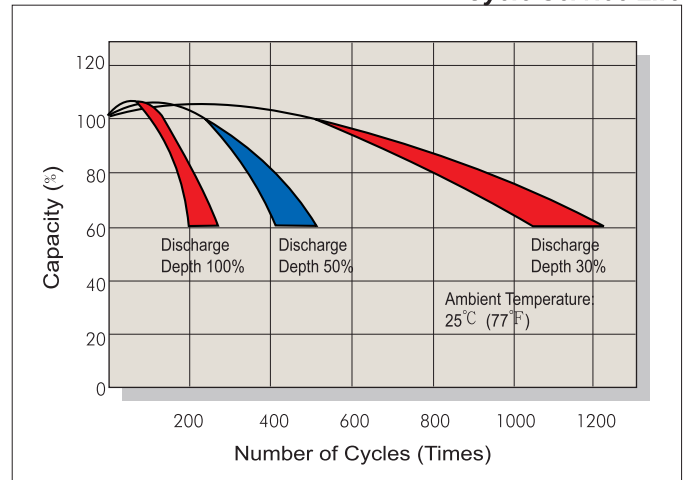
### Capacity Retention Characteristic



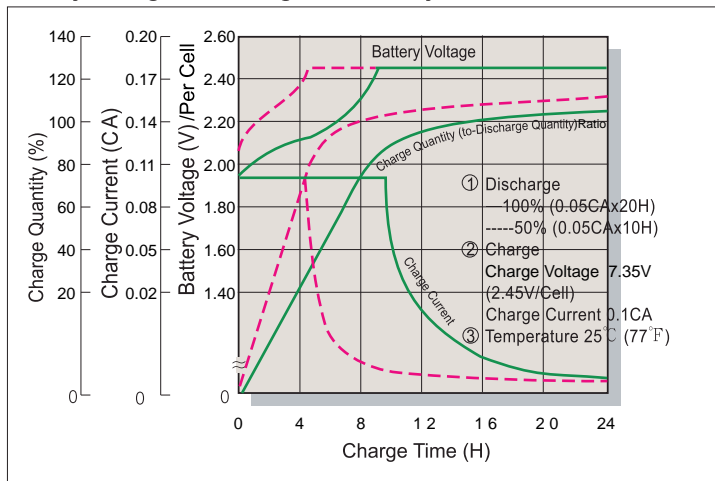
### Battery Voltage and Charge Time for Standby Use



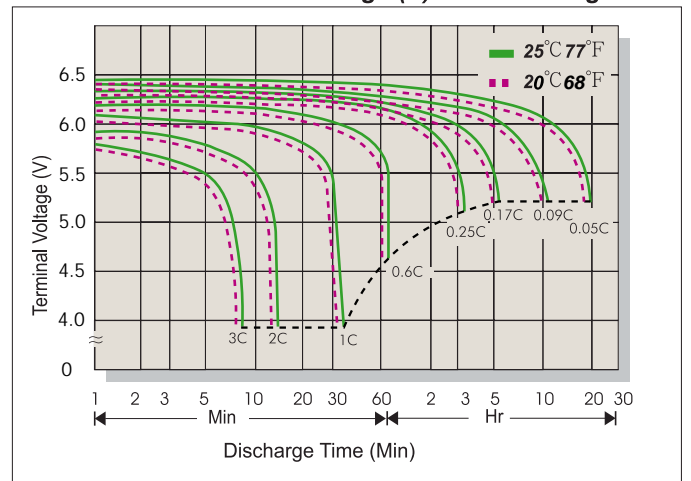
### Cycle Service Life



### 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

Sales Office URL: [WWW.CSB-BATTERY.COM](http://WWW.CSB-BATTERY.COM)

**GLOBAL HQ**  
 CSB BATTERY CO., LTD. (TAIWAN)  
 Tel : +886-2-2880-5600  
 Fax : +886-2-2888-3300  
 mail : service@csb-battery.com.tw

**BEIJING OFFICE. (CHINA)**  
 CSB BATTERY TECHNOLOGIES (BEIJING) CO., LTD.  
 Tel : +86-10-5820-5336/5338  
 Fax : +86-10-58203053  
 mail : chinasl@csb-battery.com

**AMERICA HQ**  
 CSB BATTERY TECHNOLOGIES INC. (U.S.A)  
 Tel : +1-817-244-7777/1-(800)3-CSB-USA(272872)  
 Fax : +1-817-244-4445  
 mail : csb@csb-battery.com

**SHANGHAI OFFICE. (CHINA)**  
 CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.  
 Tel : +86-21-5046-1622/5046-0833  
 Fax : +86-21-5064-3314  
 mail : chinasl@csb-battery.com

**EUROPE HQ**  
 CSB Battery Europe BV.  
 Tel : +31(0)-180-418-140  
 Fax : +31(0)-180-418-327  
 mail : eurosales@csb-battery.eu

**SHENZHEN OFFICE. (CHINA)**  
 CSB BATTERY LOGISTIC (SHANGHAI) CO., LTD.  
 Tel : +86-755-8831-6488/6396/6356  
 Fax : +86-755-8831-6548  
 mail : she@csb-battery.com.cn