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# GPL 12400 ▶ 12V 40Ah

GPL 12400 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

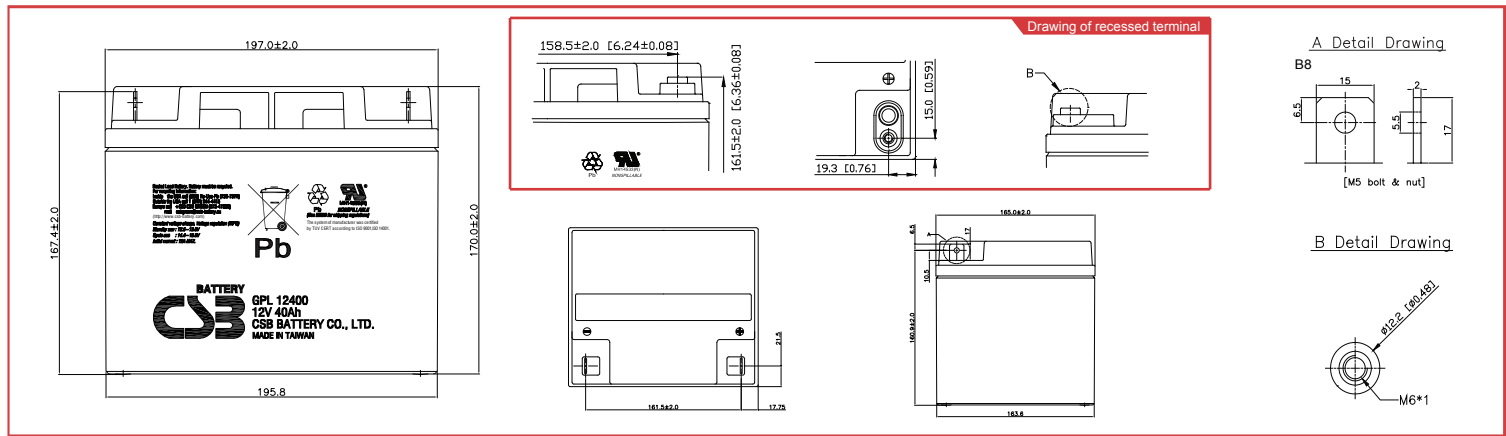
<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	40 Ah @ 20hr-rate to 1.75V per cell @25°C (77°F)
<b>Weight</b>	Approx. 14.5 kg(32.0 lbs)
<b>Maximum Discharge Current</b>	400A(5sec)
<b>Internal Resistance</b>	Approx. 6.4 mΩ
<b>Operating Temperature Range</b>	Discharge: -15°C~50°C ( 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>	12 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>	L terminal:B8 (M5 bolt) or Recessed type (M6 bolt)
<b>Container Material</b>	ABS(UL 94-HB) & Flammability resistance of (UL 94-V0) can be available upon request.



CSB-manufactured **VRLA** (Absorbent **G**lass **M**at type) batteries are UL-recognized components under 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)	170±2 (6.69±0.08)	170±2 (6.69±0.08)	197±2 (7.76±0.08)



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

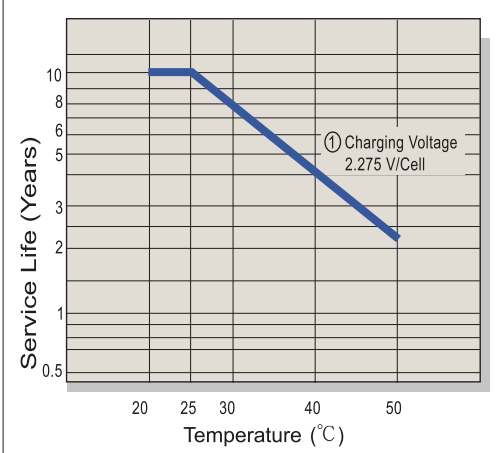
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	162	103.5	78.2	47.7	28.1	20.4	16.3	11.6	7.36	4.83	3.93	2.03
1.67V	145	96.5	74.5	46.7	27.9	20.3	16.2	11.5	7.34	4.77	3.85	1.94
1.70V	137	92.8	72.4	46.1	27.8	20.2	16.1	11.4	7.32	4.75	3.82	1.91
1.75V	124	87.4	69.5	45.0	27.6	20.1	16.0	11.3	7.29	4.69	3.76	1.84
1.80V	111	81.3	65.9	43.8	27.4	19.9	15.9	11.2	7.25	4.62	3.70	1.77
1.85V	98.1	75.1	62.4	42.5	27.0	19.8	15.8	11.1	7.22	4.56	3.64	1.70

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

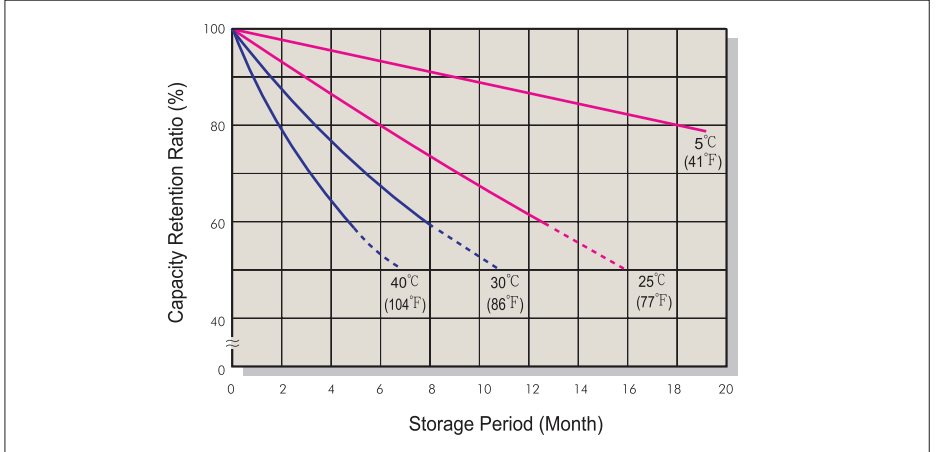
F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	1941	1242	938	572	338	245	195	139	88.4	58.0	47.2	24.4
1.67V	1735	1158	895	558	335	243	194	138	88.1	57.3	46.4	23.3
1.70V	1647	1117	869	552	334	242	193	137	87.9	57.0	46.0	22.9
1.75V	1490	1049	830	539	331	241	192	136	87.5	56.3	45.2	22.1
1.80V	1334	975	791	525	328	239	191	135	87.2	55.6	44.4	21.3
1.85V	1178	902	749	510	324	238	190	134	86.7	54.8	43.7	20.6

Ratings presented herein are subject to revision without notice. Please refer to [www.csb-battery.com](http://www.csb-battery.com) to confirm the latest version.

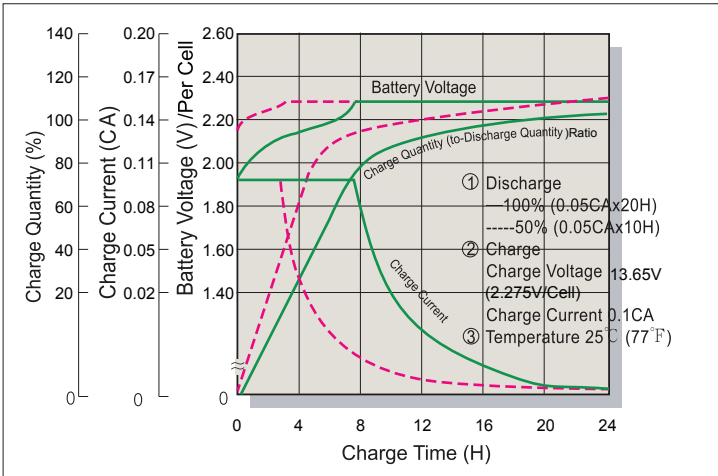
### Trickle (or Float) Service Life



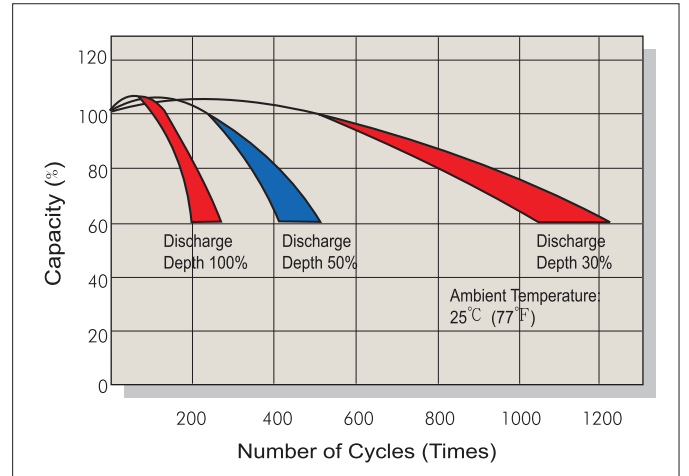
### Capacity Retention Characteristic



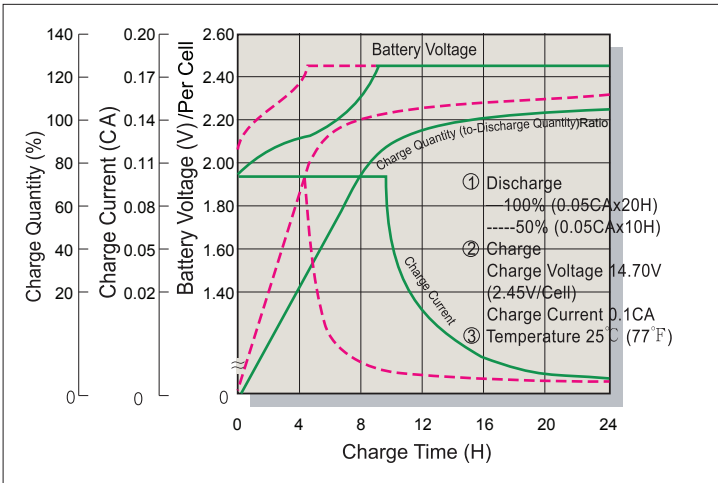
### Battery Voltage and Charge Time for Standby Use



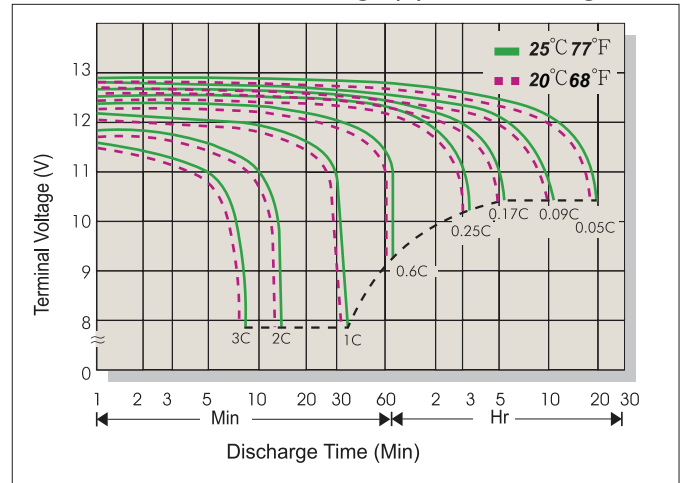
### Cycle Service Life



### 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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