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GP 12400 ▶ 12V 40Ah

GP 12400 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

Cells Per Unit	6
Voltage Per Unit	12
Capacity	40A h @ 20hr-rate to 1.75V per cell @25 °C(77°F)
Weight	Approx. 12.63 kg(27.84 lbs)
Maximum Discharge Current	400A(5sec)
Internal Resistance	Approx. 8.1mΩ
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 Current Limit	12A
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	B2-L terminal or Recessed type to accept M6 bolt
Container Material	ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E88637) can be available upon request.



MH14533(N)



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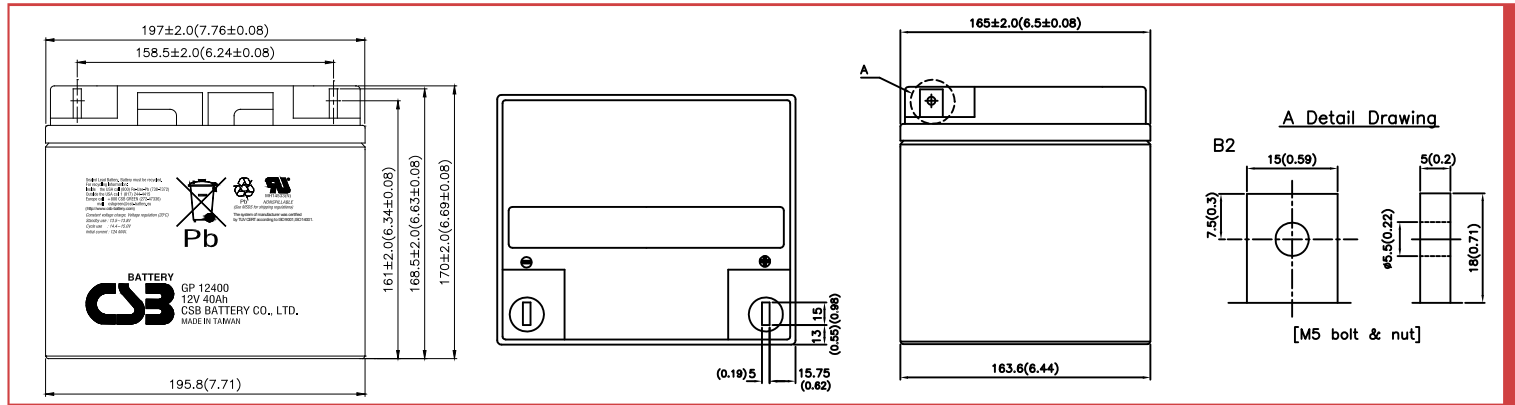


CSB-manufactured VRLA batteries are UL-recognized components under UL924 and UL1989.

CSB is also certified by ISO 9001 and ISO 14001.

► Dimensions :

Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	170±2 (6.69±0.08)	165±2.0 (6.5±0.08)	197±2 (7.76±0.08)



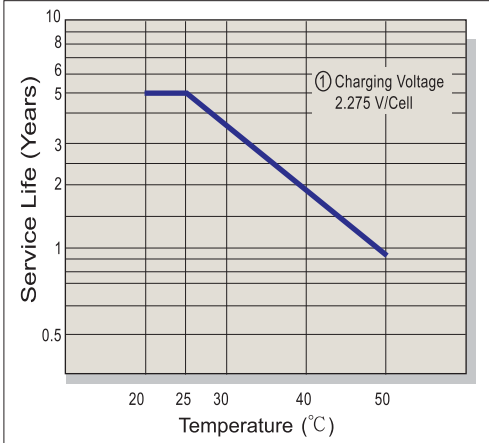
Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	176	113	85.0	51.8	30.6	17.7	12.6	9.83	8.01	5.25	4.28	2.21
1.67V	157	105	81.0	50.8	30.3	17.6	12.5	9.77	7.98	5.19	4.20	2.12
1.70V	149	101	78.7	50.1	30.2	17.5	12.4	9.75	7.96	5.17	4.16	2.08
1.75V	135	95.0	75.5	49.0	30.0	17.4	12.3	9.71	7.93	5.10	4.09	2.01
1.80V	121	88.3	71.7	47.6	29.8	17.3	12.2	9.67	7.89	5.03	4.03	1.93
1.85V	107	81.7	67.8	46.2	29.4	17.2	12.1	9.63	7.85	4.96	3.96	1.86

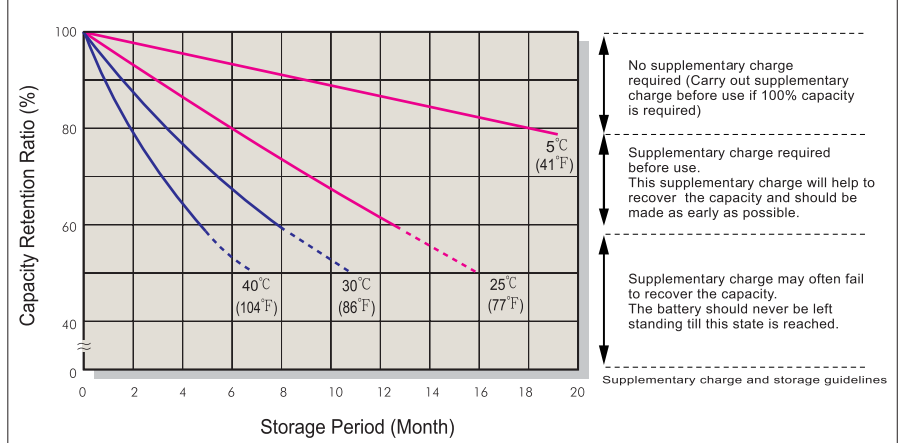
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	2,110	1,350	1,020	622	367	212	151	118	96.1	63.0	51.3	26.5
1.67V	1,886	1,259	972	606	364	211	150	117	95.7	62.3	50.4	25.4
1.70V	1,790	1,214	945	600	363	210	149	116	95.5	62.0	50.0	24.9
1.75V	1,620	1,140	902	585	360	209	148	115	95.2	61.2	49.2	24.1
1.80V	1,450	1,060	860	571	357	208	147	114	94.8	60.4	48.3	23.2
1.85V	1,280	980	814	555	353	207	146	113	94.2	59.6	47.5	22.4

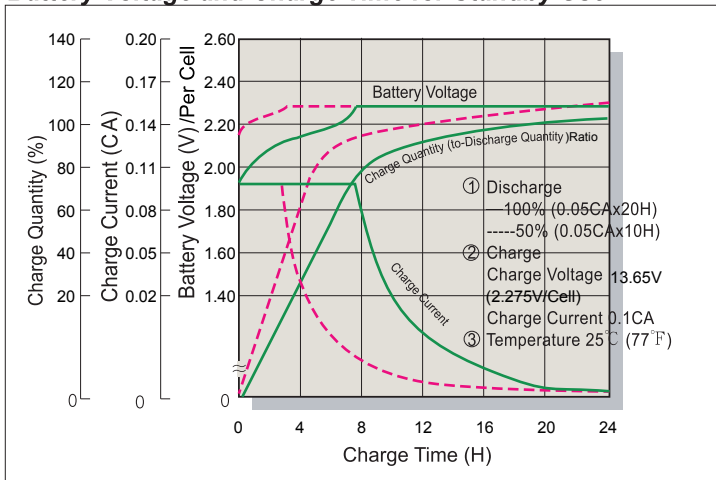
Trickle (or Float) Service Life



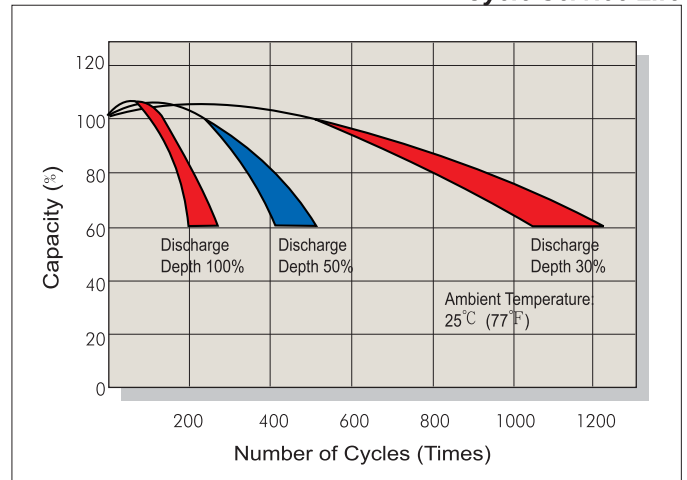
Capacity Retention Characteristic



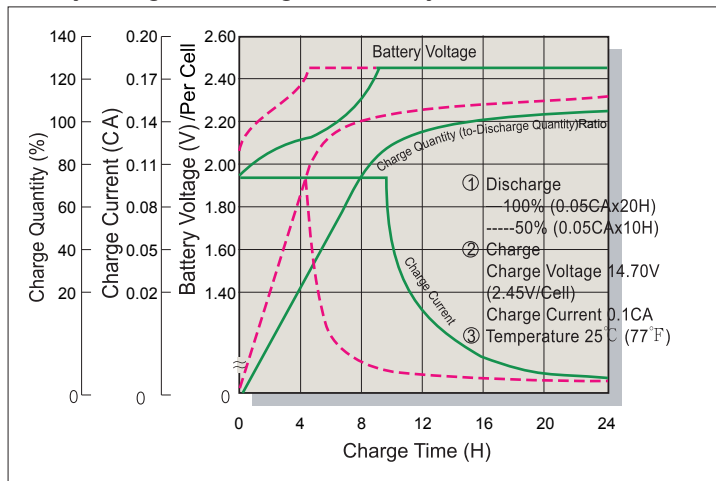
Battery Voltage and Charge Time for Standby Use



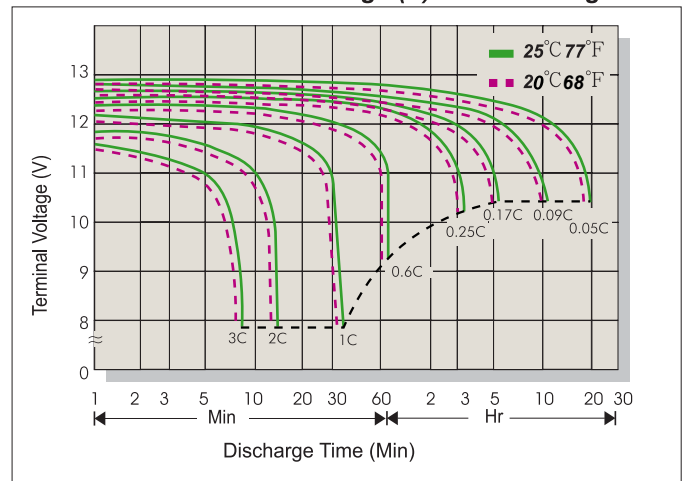
Cycle Service Life



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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