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# GPL 12750 ▶ 12V 75Ah

GPL 12750 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>	75 Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
<b>Weight</b>	Approx. 25.6 kg(56.44 lbs)
<b>Maximum Discharge Current</b>	800A(5sec)
<b>Internal Resistance</b>	Approx. 4.5 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>	22.5 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>	I2-Thread lead alloy recessed terminal to accept M6/M8 bolt
<b>Container Material</b>	Polypropylene(UL 94-V0/File E50955)*Flammability resistance of (UL 94-HB/File E216959) can be available upon request.



MH14533(N)



ISO9001  
No :041005117

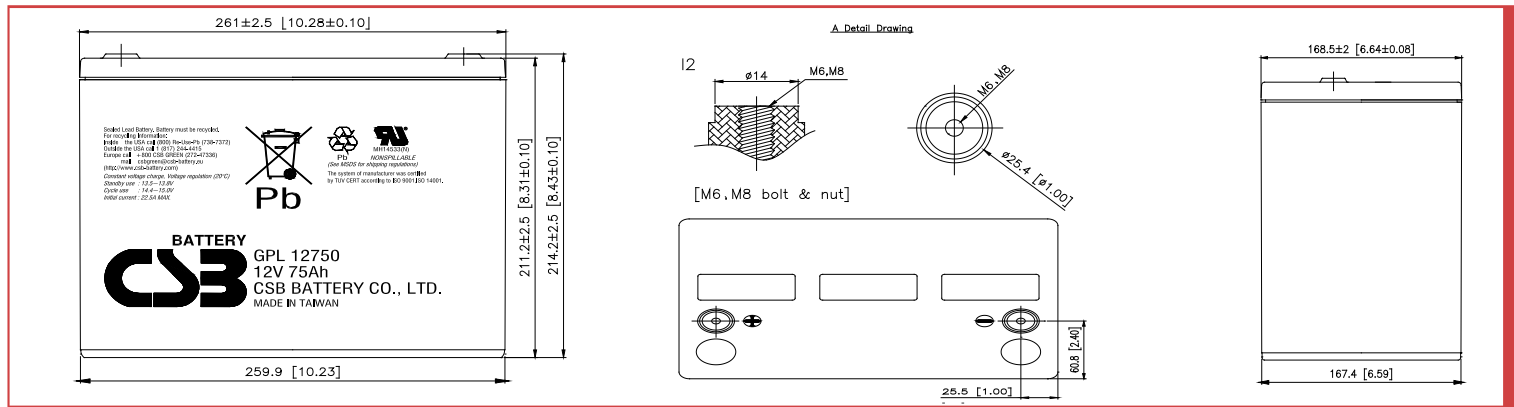


ISO 14001  
NO.UM 1-12-0045

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

CSB is also certified by ISO 9001 and ISO 14001.

Dimensions :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	214.2±2.5 (8.43±0.1)	211.2±2.5 (8.31±0.1)	261±2.5 (10.28±0.1)	168.5±2 (6.63±0.08)



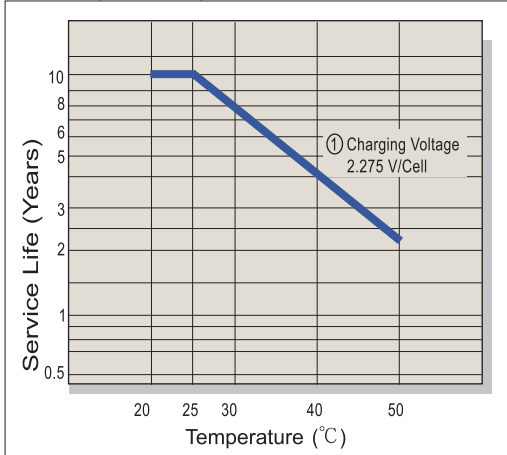
## Constant Current Discharge Characteristics Unit:A (25°C ,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	298	198	149	87.5	53.5	30.9	21.9	17.3	14.5	9.52	7.85	4.16
1.67V	274	191	146	86.7	53.2	30.7	21.7	17.2	14.4	9.41	7.78	4.13
1.70V	265	187	144	86.1	52.4	30.5	21.5	17.1	14.3	9.34	7.76	4.12
1.75V	234	170	139	84.4	51.4	29.9	21.4	16.9	14.1	9.32	7.64	4.04
1.80V	210	158	131	81.9	50.2	29.5	21.0	16.7	13.8	9.17	7.55	3.98
1.85V	183	145	118	77.0	47.5	28.1	20.3	16.0	13.5	8.88	7.26	3.82

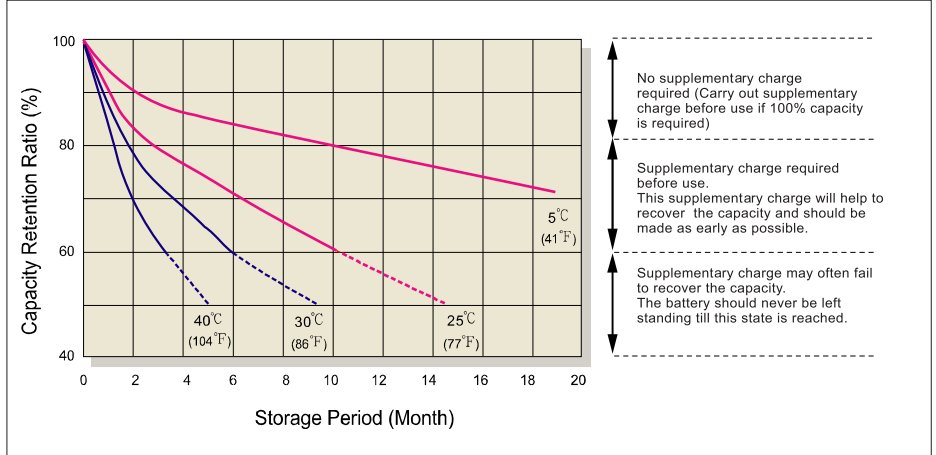
## Constant Power Discharge Characteristics Unit:W (25°C ,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	3,013	2,127	1,654	1,003	614	370	261	207	173	116	93.5	49.7
1.67V	2,818	2,060	1,635	996	612	365	260	206	172	115	92.9	49.4
1.70V	2,729	2,022	1,609	994	610	363	259	205	171	114	92.7	49.3
1.75V	2,553	1,927	1,558	976	603	361	257	203	170	113	92.3	49.0
1.80V	2,371	1,815	1,478	949	592	356	254	201	168	111	91.0	48.7
1.85V	2,075	1,667	1,348	904	572	341	245	195	162	107	87.5	47.1

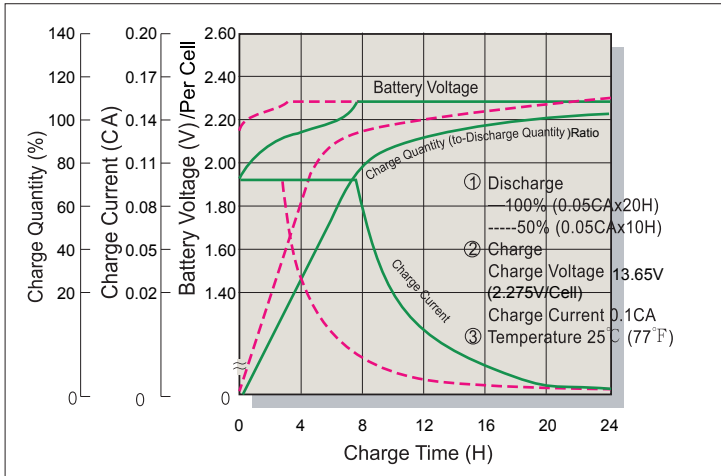
## Trickle (or Float) Service Life



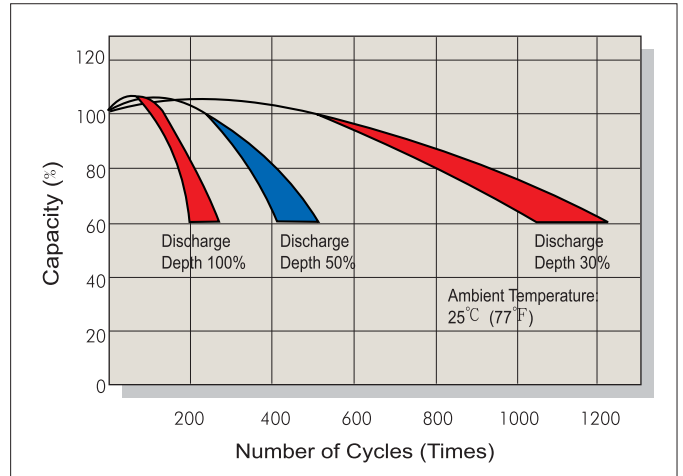
## Capacity Retention Characteristic



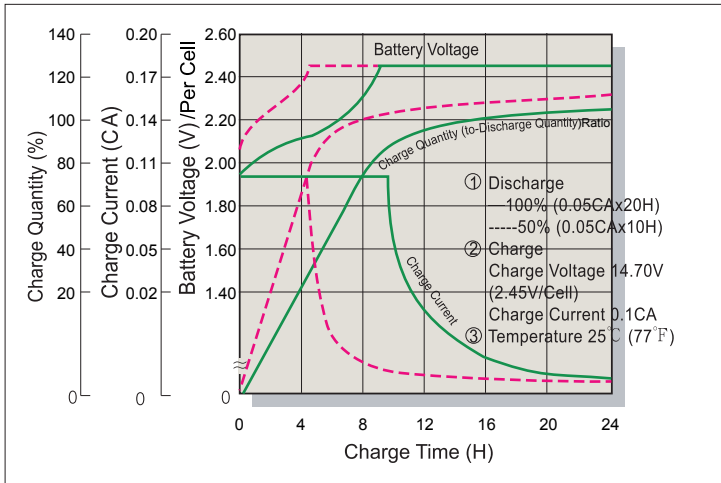
## Battery Voltage and Charge Time for Standby Use



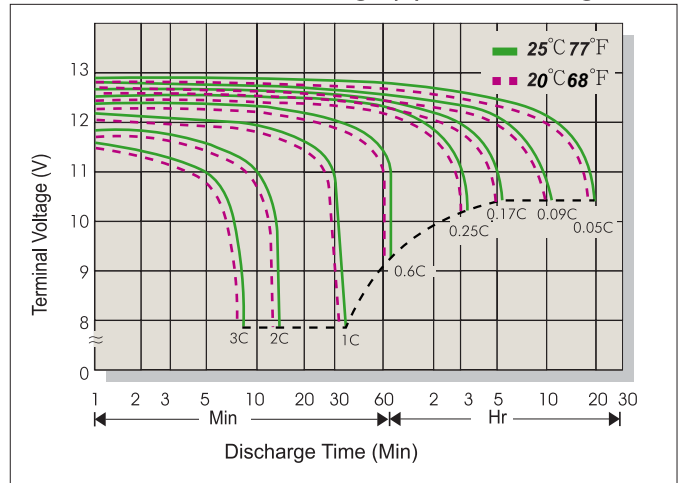
## Cycle Service Life



## 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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