



GPL 12750

12V 75.0Ah

GPL 12750 is a general purpose battery with 10 years expected life under normal float charge. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



Specification

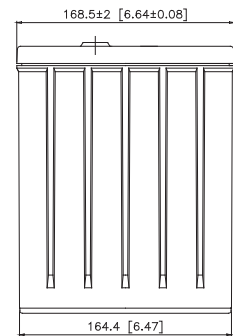
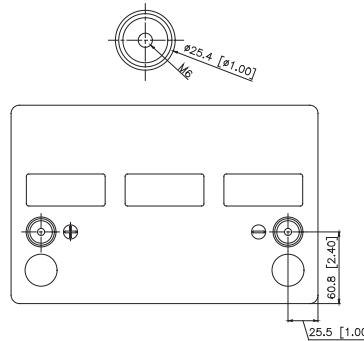
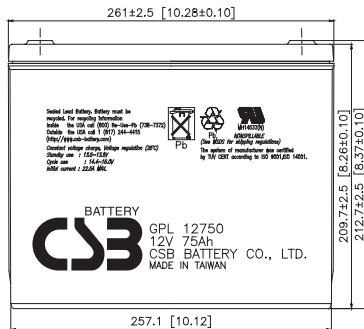
Cells Per Unit	□ □ □ □ □ □	6
Voltage Per Unit	□ □ □ □ □ □	12
Capacity	□ □ □ □ □ □	75Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	□ □ □ □ □ □	Approx. 26.7kg(58.7 lbs)
Maximum Discharge Current	□ □ □ □ □ □	800A (5sec)
Internal Resistance	□ □ □ □ □ □	Approx. 4.5mΩ
Operating Temperature Range	□ □ □ □ □ □	Discharge: -20°C~50°C (-4°F~122°F)
	□ □ □ □ □ □	Charge: -20°C~50°C (-4°F~122°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	□ □ □ □ □ □	22.5A
Current Limit		
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	□ □ □ □ □ □	Thread Insert & Bolt
Container Material	□ □ □ □ □ □	-Polypropylene (UL94-HB)*Flammability resistance of UL94-V0 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)

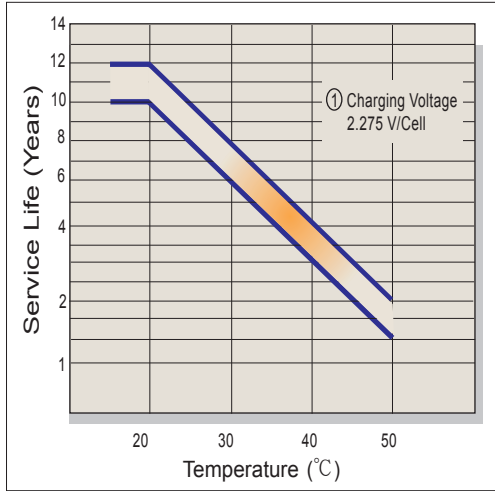
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	325.00	215.00	158.00	93.30	53.40	31.00	21.50	16.70	14.40	9.36	7.85	4.45
1.67V	305.00	202.50	154.00	91.70	52.80	30.70	21.30	16.60	14.30	9.32	7.74	4.43
1.70V	285.00	190.00	150.00	90.00	52.20	30.30	21.00	16.50	14.20	9.28	7.62	4.41
1.75V	252.50	175.00	144.00	85.40	50.70	29.80	20.60	16.20	14.00	9.11	7.56	4.33
1.80V	220.00	160.00	138.00	80.80	49.20	29.30	20.20	15.90	13.70	8.93	7.50	4.24
1.83V	200.50	151.00	134.40	78.00	48.30	29.00	20.00	15.70	13.60	8.83	7.46	4.19

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

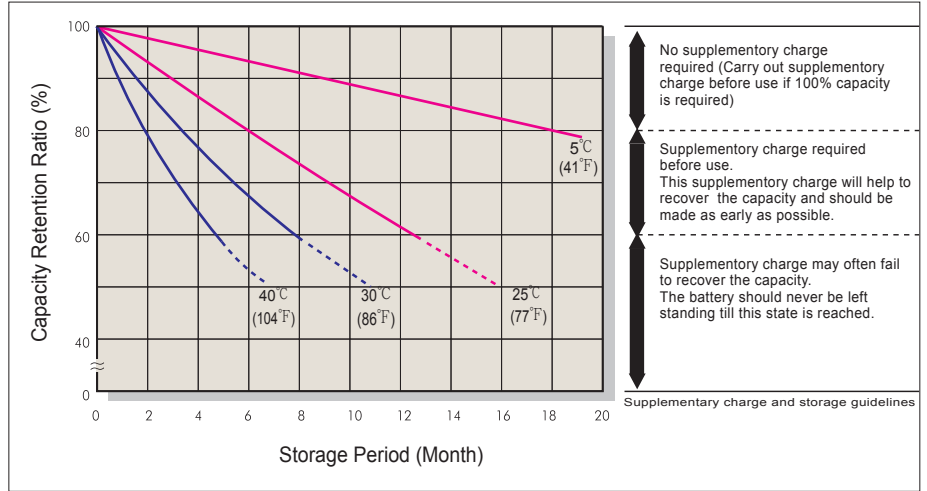
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	3,420.00	2,370.00	1,720.00	1,070.00	623.00	363.00	253.00	197.00	170.00	112.00	94.70	53.20
1.67V	3,245.00	2,235.00	1,680.00	1,050.00	617.00	360.50	250.50	196.50	169.50	111.50	94.60	53.00
1.70V	3,070.00	2,100.00	1,640.00	1,030.00	611.00	358.00	248.00	196.00	169.00	111.00	94.40	52.80
1.75V	2,760.00	1,935.00	1,585.00	983.00	595.50	352.50	244.00	192.50	166.00	109.00	92.70	51.90
1.80V	2,450.00	1,770.00	1,530.00	936.00	580.00	347.00	240.00	189.00	163.00	107.00	90.90	51.00
1.83V	2,264.00	1,671.00	1,497.00	907.80	570.70	343.70	237.60	186.90	161.20	105.80	89.90	50.50

● All mentioned values are average values.

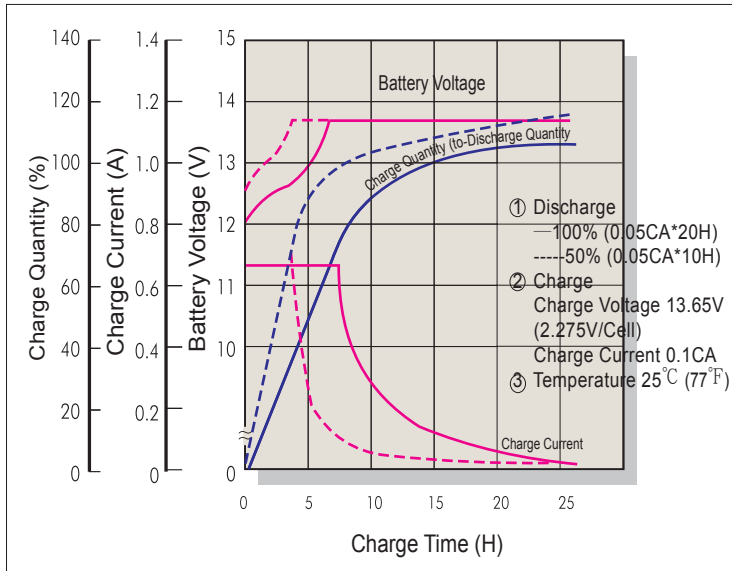
Trickle (or Float) Service Life



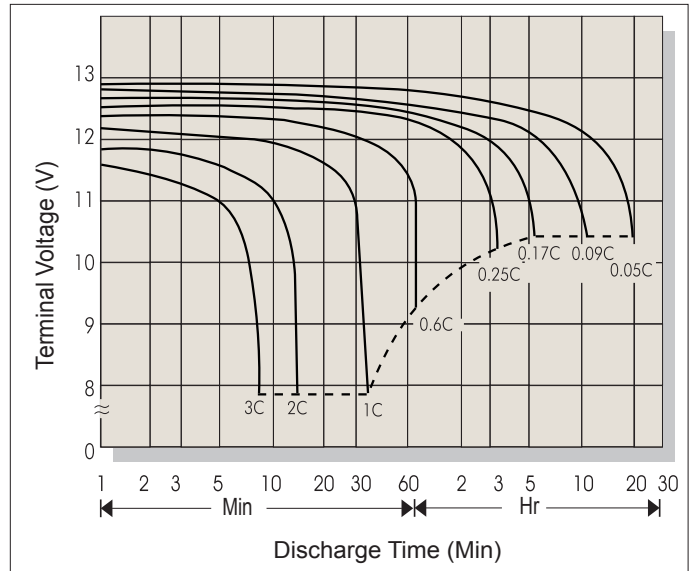
Capacity Retention Characteristic



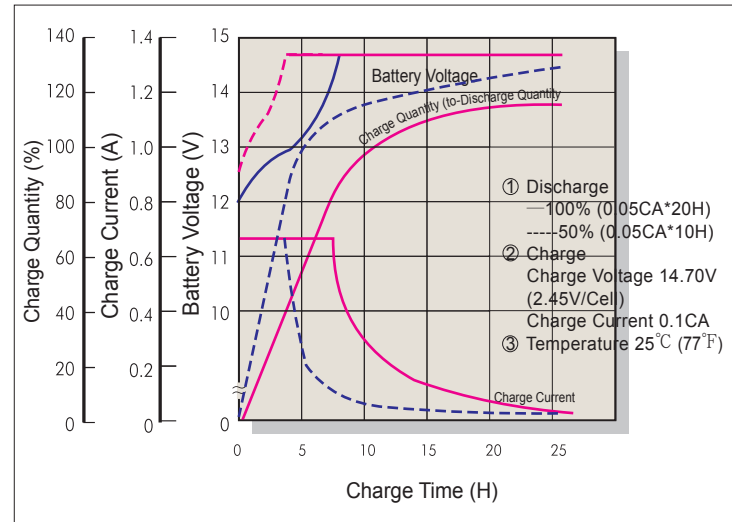
Battery Voltage and Charge Time for Standby Use



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



Battery Voltage and Charge Time for Cycle Use



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

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	

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