



GP 12650

12V 65.0Ah

GP 12650 is a general purpose battery with 3-5 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

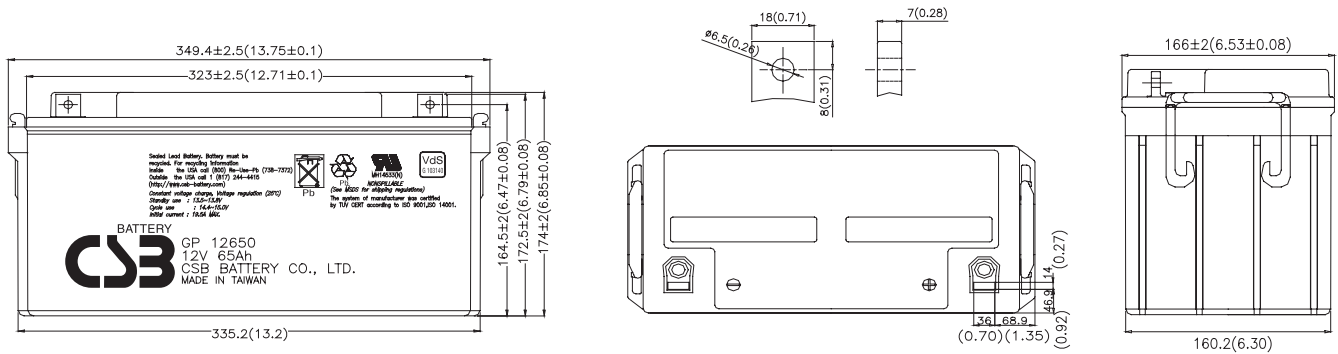
Cells Per Unit	6
Voltage Per Unit	12
Capacity	65Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 20kg(44.0lbs)
Maximum Discharge Current	500A(5sec)
Internal Resistance	Approx. 6mΩ
Operating Temperature Range	Discharge: -15°C~50°C (5°F~122°F) Charge: -15~40°C (5°F~104°F) Storage: -15°C~40°C (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	19.5A
Current Limi	
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	Bolt & Nut
Container Material	-Polypropylene (94-HB)



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)

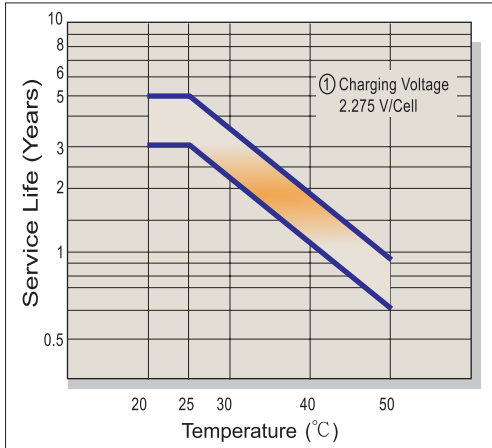
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	270.83	173.33	131.67	79.92	47.17	27.25	19.40	15.08	12.40	8.08	6.58	3.41
1.67V	241.67	161.67	125.25	78.28	47.05	27.19	19.30	15.02	12.30	8.00	6.48	3.26
1.70V	229.17	156.67	122.50	77.58	47.00	27.17	19.25	15.00	12.25	7.96	6.43	3.20
1.75V	207.50	146.67	116.67	75.50	46.46	27.09	19.17	14.96	12.17	7.86	6.32	3.09
1.80V	185.83	136.67	110.83	73.42	45.92	27.00	19.08	14.92	12.08	7.76	6.21	2.98
1.85V	164.16	126.67	105.00	71.34	45.38	26.92	19.00	14.88	12.00	7.66	6.10	2.87

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

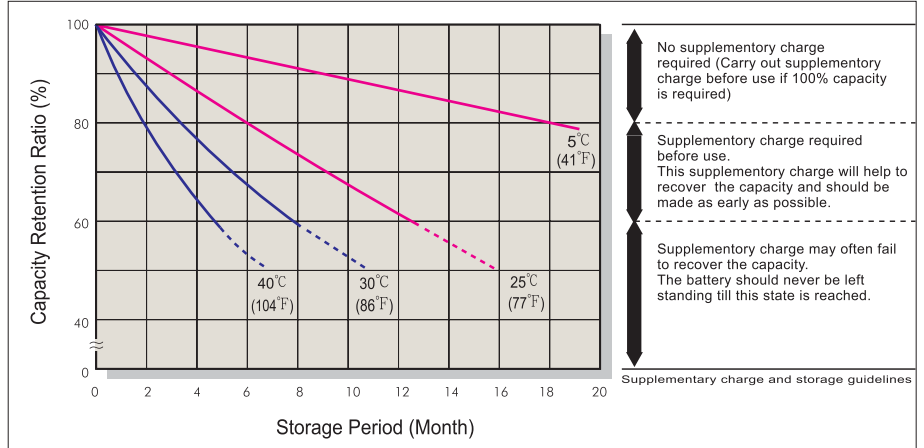
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	3,250.00	2,080.00	1,580.00	959.00	566.00	327.00	232.00	181.00	148.00	97.00	79.00	40.90
1.67V	2,900.00	1,940.00	1,503.00	939.40	564.60	326.30	231.30	180.30	147.30	95.95	77.67	39.15
1.70V	2,750.00	1,880.00	1,470.00	931.00	564.00	326.00	231.00	180.00	147.00	95.50	77.10	38.40
1.75V	2,490.00	1,760.00	1,400.00	906.00	557.50	325.00	230.00	179.50	146.00	94.30	75.80	37.05
1.80V	2,230.00	1,640.00	1,330.00	881.00	551.00	324.00	229.00	179.00	145.00	93.10	74.50	35.70
1.85V	1,970.00	1,520.00	1,260.00	856.00	544.50	323.00	228.00	178.50	144.00	91.90	73.20	34.35

• All mentioned values are average values.

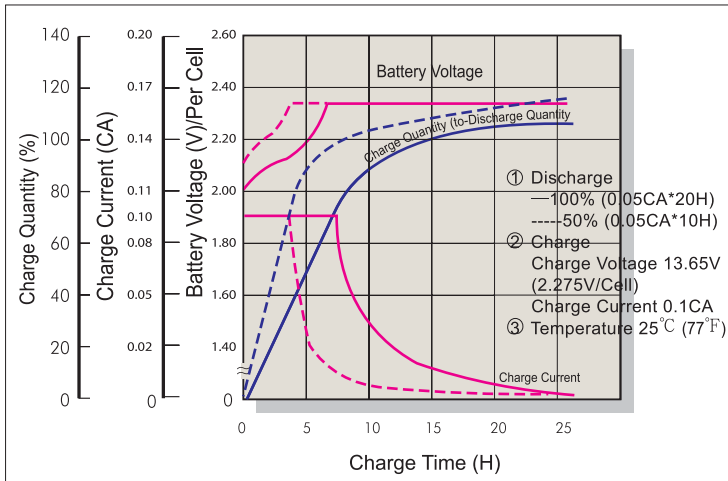
Trickle (or Float) Service Life



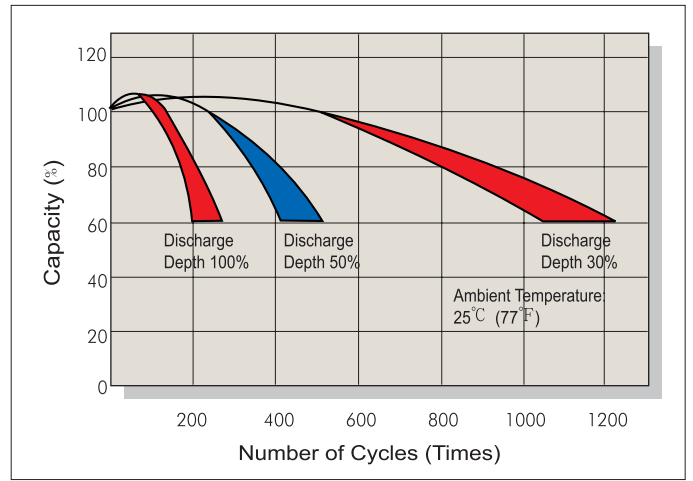
Capacity Retention Characteristic



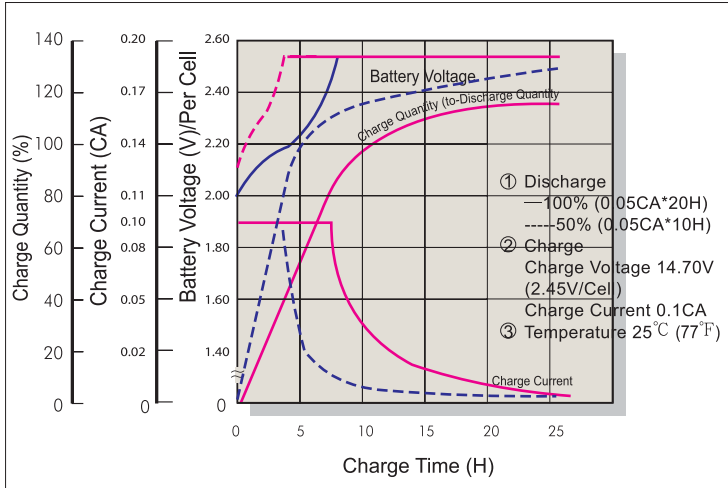
Battery Voltage and Charge Time for Standby Use



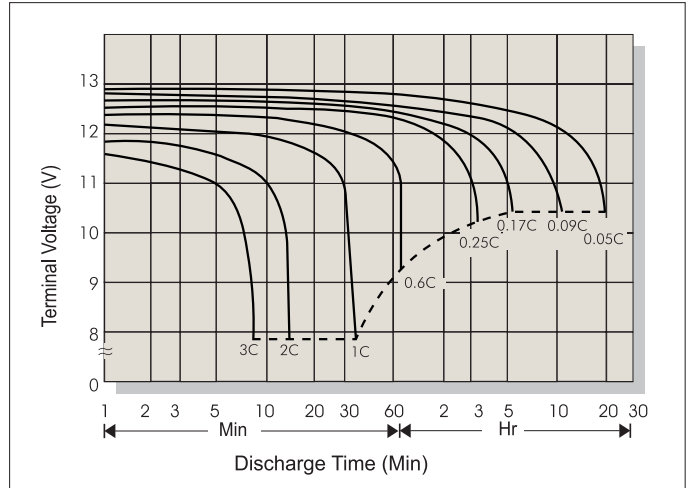
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



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



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	

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

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