



GP 1272 28W

12V 28W

GP 1272 28W 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.



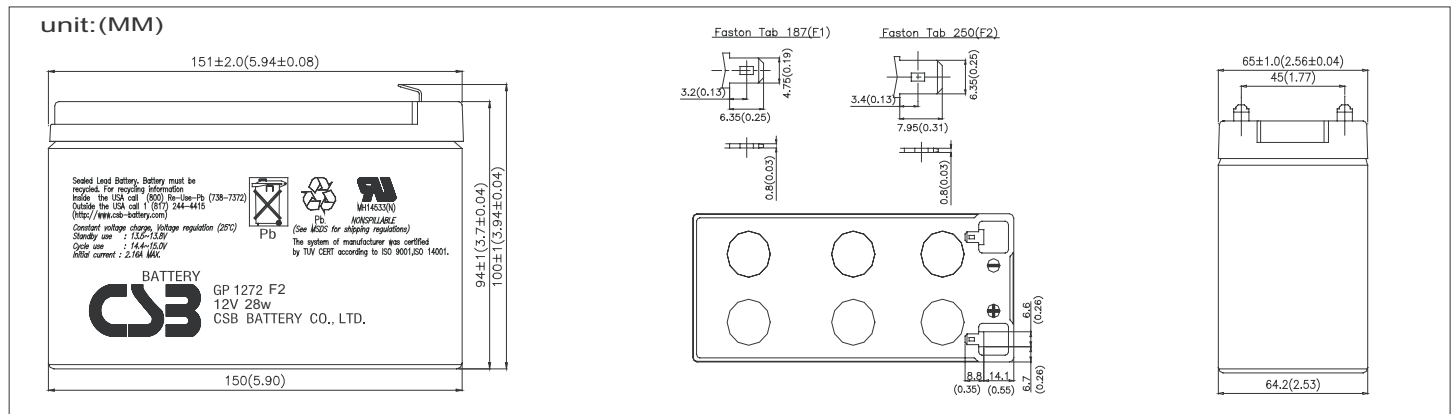
Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	28W @ 15MIN-rate to 1.67V per cell @25 °C(77°F)
Weight	Approx. 2.15kg(5.6 lbs)
Maximum Discharge Current	130A(5sec)
Internal Resistance	Approx. 18mΩ
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	2.16A
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	Faston Tab 187/250
Container Material	-ABS (UL94-HB)*Flammability resistance of UL94-V2 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



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

F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	52.3	35.3	26.6	22.1	18.7	13.9	10.9	7.87	4.41	3.21
1.67V	47.8	33.7	26.0	21.8	18.3	13.8	10.8	7.82	4.34	3.19
1.70V	45.6	32.6	25.4	21.3	18.1	13.7	10.7	7.74	4.32	3.17
1.75V	42.1	30.9	24.3	20.6	17.6	13.4	10.6	7.64	4.29	3.15
1.80V	37.0	28.1	22.4	19.5	16.7	12.9	10.3	7.47	4.20	3.09
1.85V	32.3	25.1	20.3	17.7	15.2	12.0	9.70	7.10	4.02	2.95

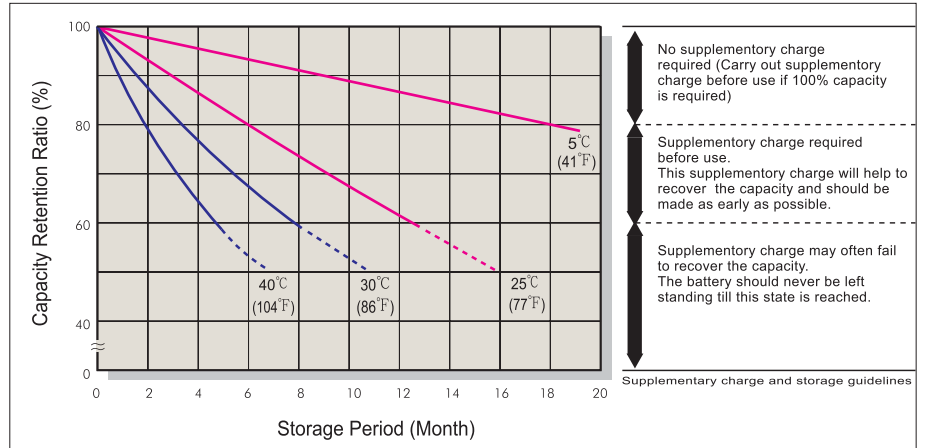
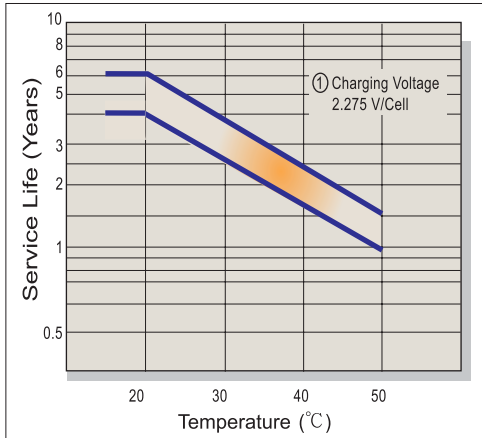
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	519	371	280	236	201	158	127	93.3	53.8	39.6
1.67V	489	356	272	232	199	157	126	92.9	53.6	39.5
1.70V	473	347	267	230	198	156	125	92.5	53.4	39.3
1.75V	445	327	256	223	193	154	124	91.6	53.0	39.1
1.80V	413	299	241	213	185	149	121	89.8	52.2	38.6
1.85V	356	266	221	196	172	140	115	85.9	50.6	37.2

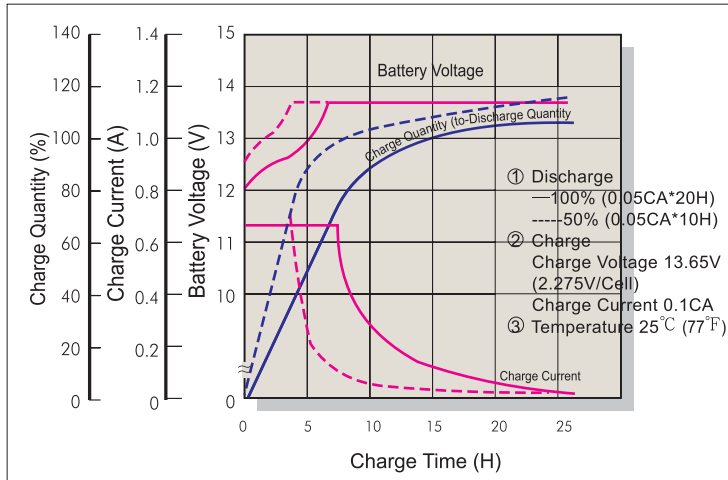
● All mentioned values are average values.

Capacity Retention Characteristic

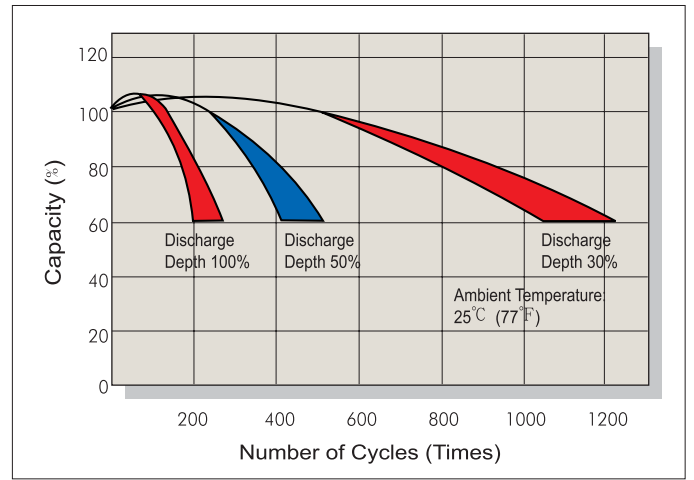
Trickle (or Float) Service Life



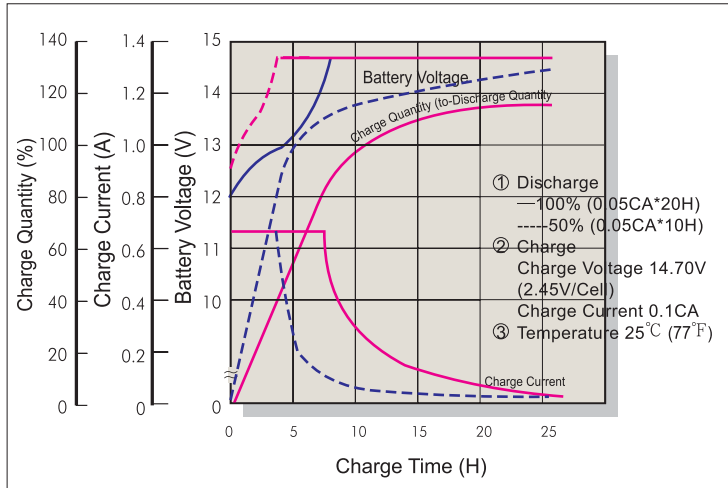
Battery Voltage and Charge Time for Standby Use



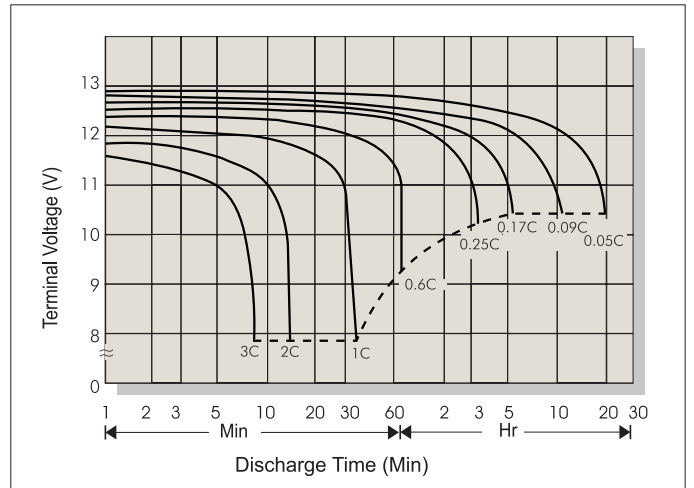
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



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



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	1.55	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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