



GP 1245 1 6 W

12V 4.5Ah 16W

GP 1245 1 6 W 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.



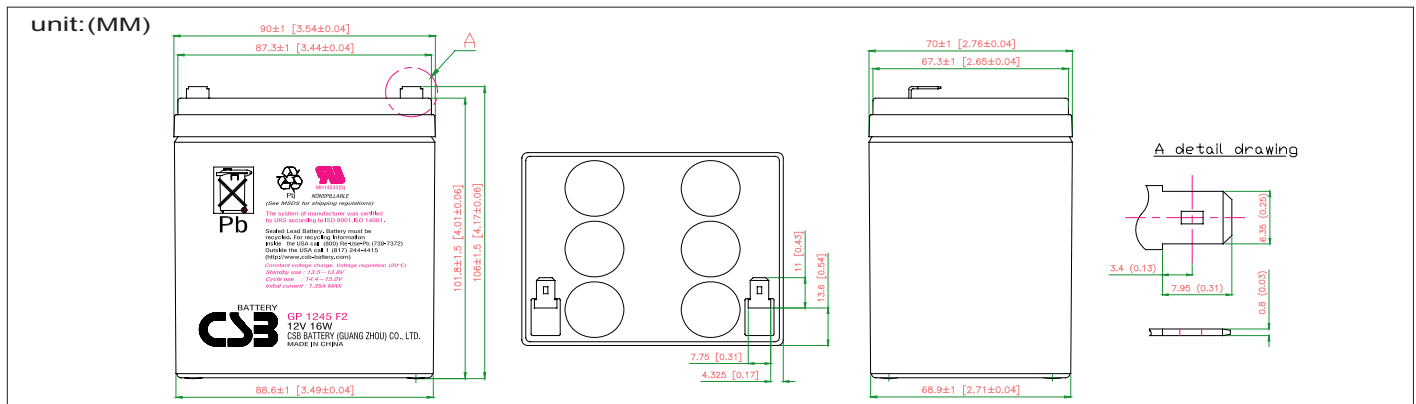
Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	16W @ 15minute-rate to 1.67V per cell @25 °C (77°F)
Weight	Approx. 1.40kg(3.09lbs)
Maximum Discharge Current	90A(5sec)
Internal Resistance	Approx. 33 mΩ
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	1.35A
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-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



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

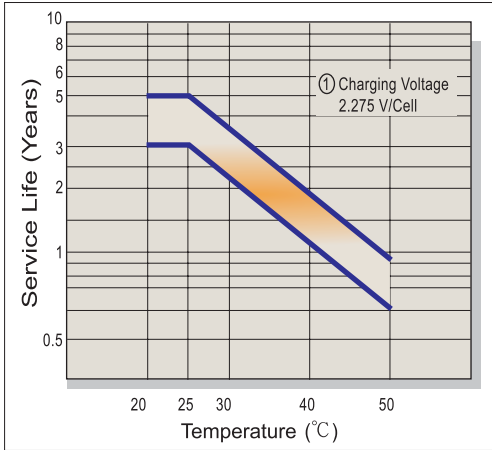
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	30.30	20.10	15.00	12.50	10.80	8.31	6.32	4.26	2.29	1.60
1.67V	28.80	19.00	14.60	12.10	10.60	8.28	6.25	4.21	2.25	1.57
1.70V	27.90	18.50	14.30	12.00	10.40	8.22	6.21	4.18	2.23	1.54
1.75V	26.40	17.40	13.60	11.60	10.20	8.07	6.05	4.09	2.17	1.49
1.80V	23.70	16.00	12.90	11.00	9.80	7.73	5.83	3.99	2.09	1.45
1.85V	20.20	14.50	11.80	10.20	9.20	7.12	5.46	3.77	2.01	1.38

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

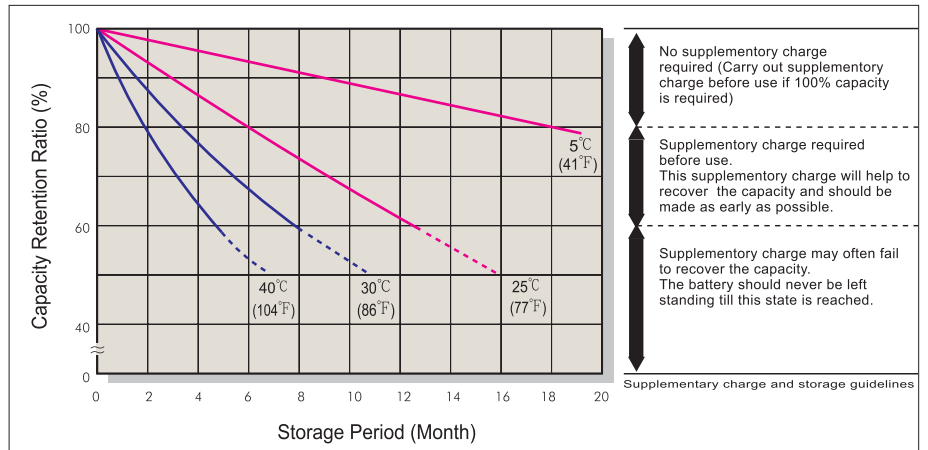
F.V/Time	2MIN	4MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	329.00	223.00	170.00	142.00	123.00	96.70	74.20	50.10	27.30	19.00
1.67V	313.00	214.00	165.00	139.00	122.00	96.00	73.30	49.80	27.00	18.80
1.70V	307.00	208.00	162.00	138.00	121.00	95.00	72.30	49.50	26.70	18.60
1.75V	294.00	197.00	157.00	134.00	118.00	94.10	71.30	48.90	26.30	18.30
1.80V	268.00	184.00	149.00	129.00	114.00	90.50	69.80	47.80	25.70	17.90
1.85V	233.00	169.00	139.00	121.00	109.00	85.00	65.40	45.60	24.80	17.30

● All mentioned values are average values.

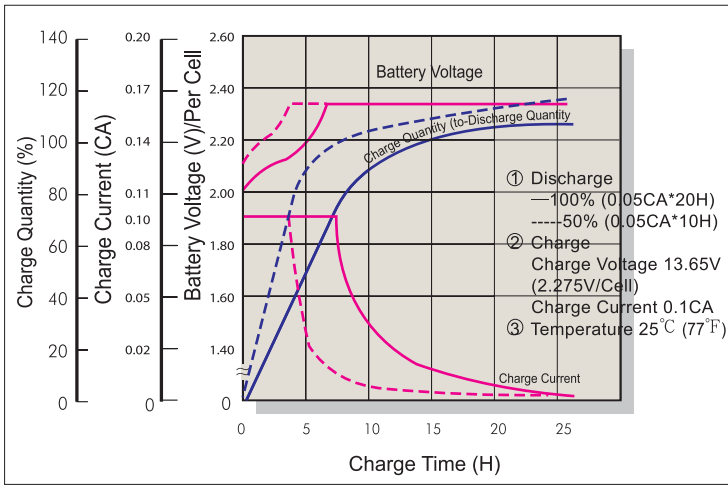
Trickle (or Float) Service Life



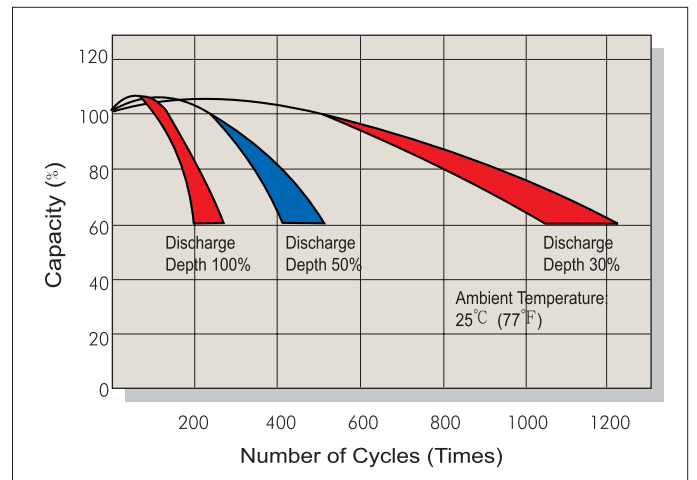
Capacity Retention Characteristic



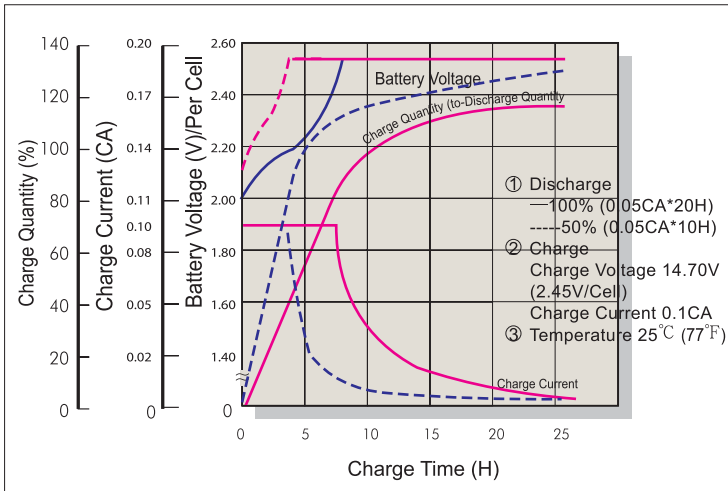
Battery Voltage and Charge Time for Standby Use



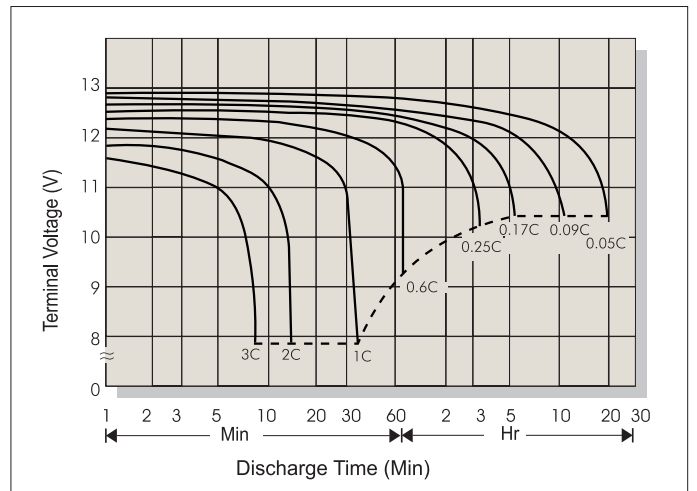
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



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



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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