

GPXL 121000

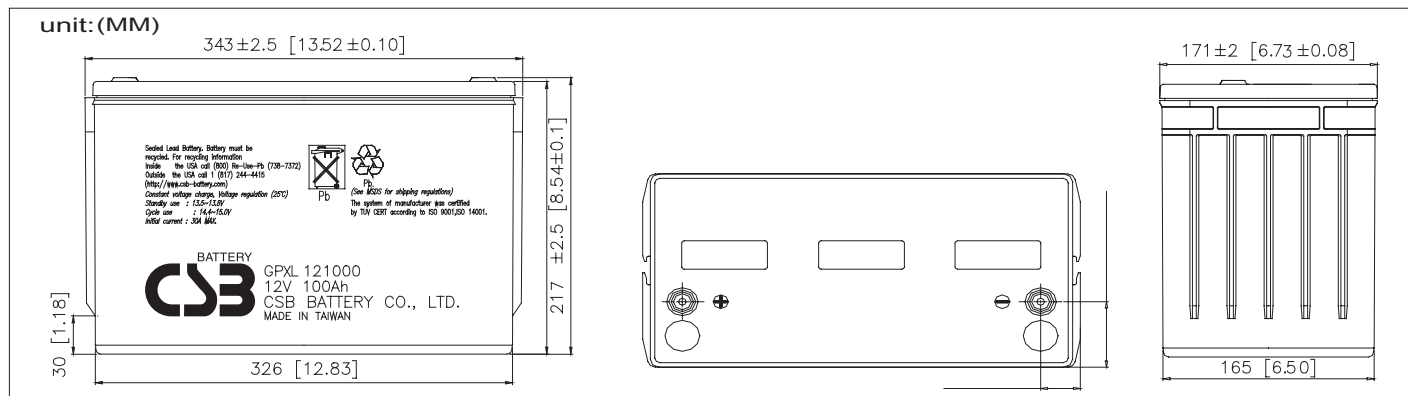
12V 100.0Ah

GPXL 121000 is a general purpose battery with 15 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	100Ah @ 10hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 36.0kg(79.2 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 3.5mΩ
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 Current Limit	30A
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 Flammability resistance .

Dimensions



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

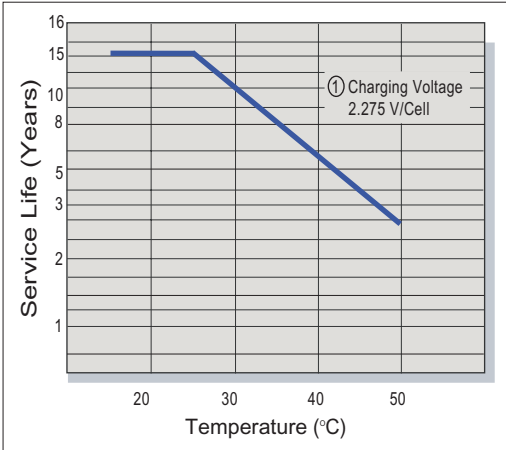
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	433.00	287.00	208.00	124.00	71.20	40.30	28.70	22.30	19.00	12.50	10.50	5.42
1.67V	395.90	263.20	202.40	119.80	70.08	39.67	28.21	22.02	18.79	12.36	10.43	5.38
1.70V	380.00	253.00	200.00	118.00	69.60	39.40	28.00	21.90	18.70	12.30	10.40	5.36
1.75V	336.50	234.00	193.50	113.00	67.60	38.75	27.45	21.55	18.40	12.10	10.20	5.31
1.80V	293.00	215.00	187.00	108.00	65.60	38.10	26.90	21.20	18.10	11.90	10.00	5.25
1.83V	249.50	196.00	180.50	103.00	63.60	37.45	26.35	20.85	17.80	11.70	9.80	5.20

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

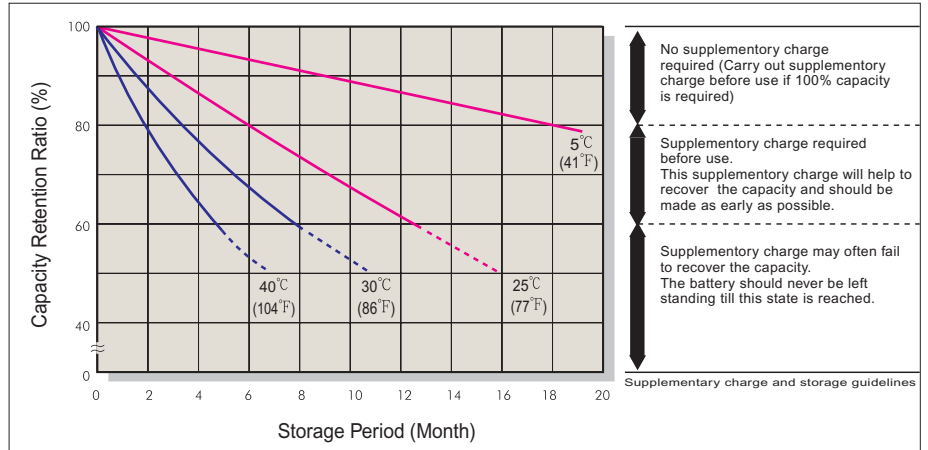
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	4,560.00	3,150.00	2,300.00	1,420.00	830.00	472.00	337.00	263.00	227.00	142.00	126.00	71.00
1.67V	4,238.00	2,905.00	2,223.00	1,392.00	818.80	465.00	332.80	261.60	225.60	141.50	125.30	70.58
1.70V	4,100.00	2,800.00	2,190.00	1,380.00	814.00	462.00	331.00	261.00	225.00	141.00	125.00	70.40
1.75V	3,685.00	2,580.00	2,110.00	1,315.00	793.50	453.50	325.50	256.50	221.00	138.50	123.00	69.15
1.80V	3,270.00	2,360.00	2,030.00	1,250.00	773.00	445.00	320.00	252.00	217.00	136.00	121.00	67.90
1.83V	2,855.00	2,140.00	1,950.00	1,185.00	752.50	436.50	314.50	247.50	213.00	134.50	119.00	66.65

● All mentioned values are average values.

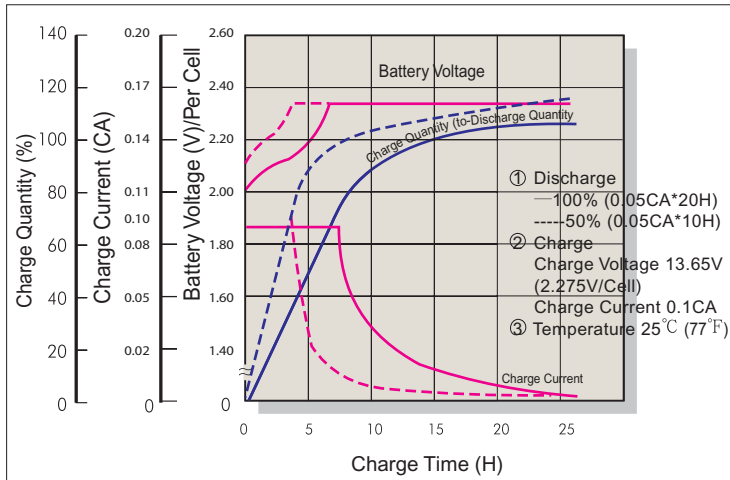
Trickle (or Float) Service Life



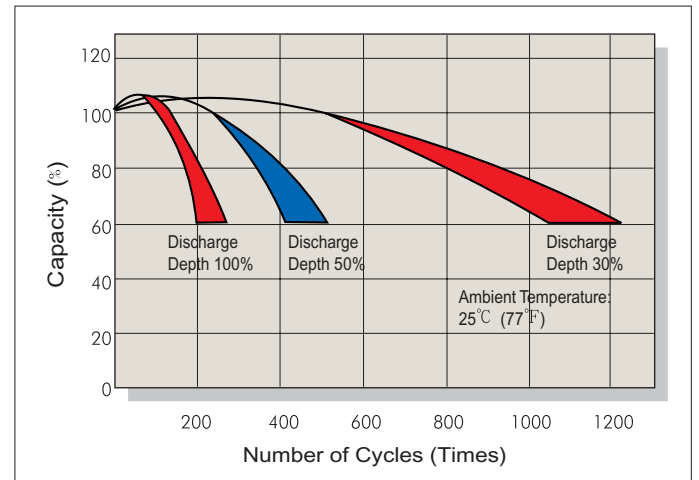
Capacity Retention Characteristic



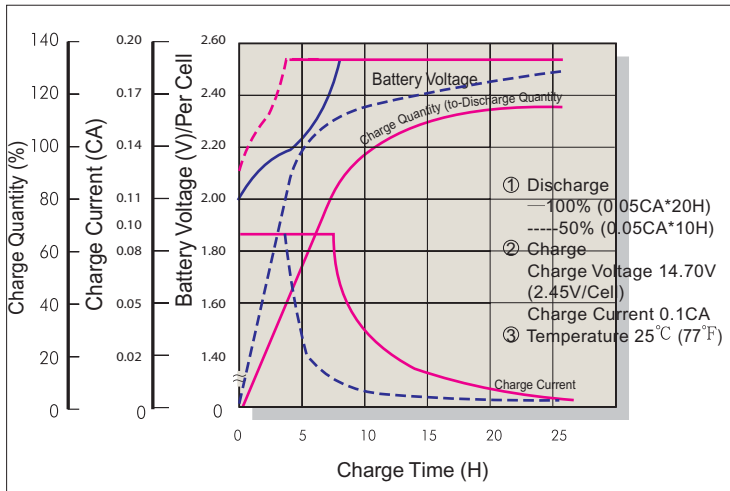
Battery Voltage and Charge Time for Standby Use



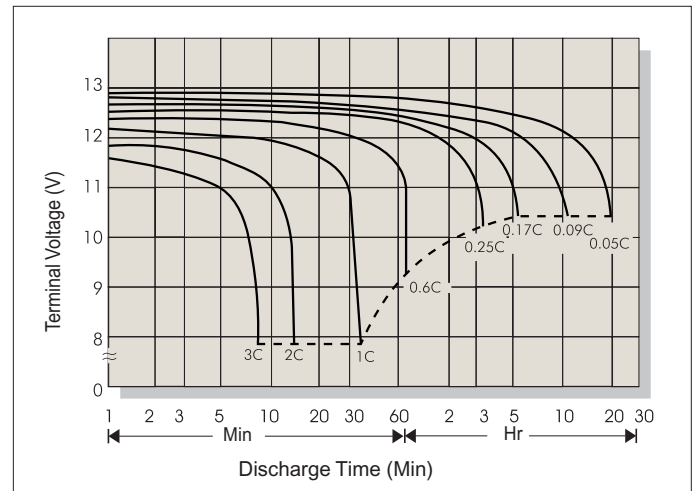
Cycle Service Life



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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