



# GPL 1272 F2FR

## 12V 7.2Ah

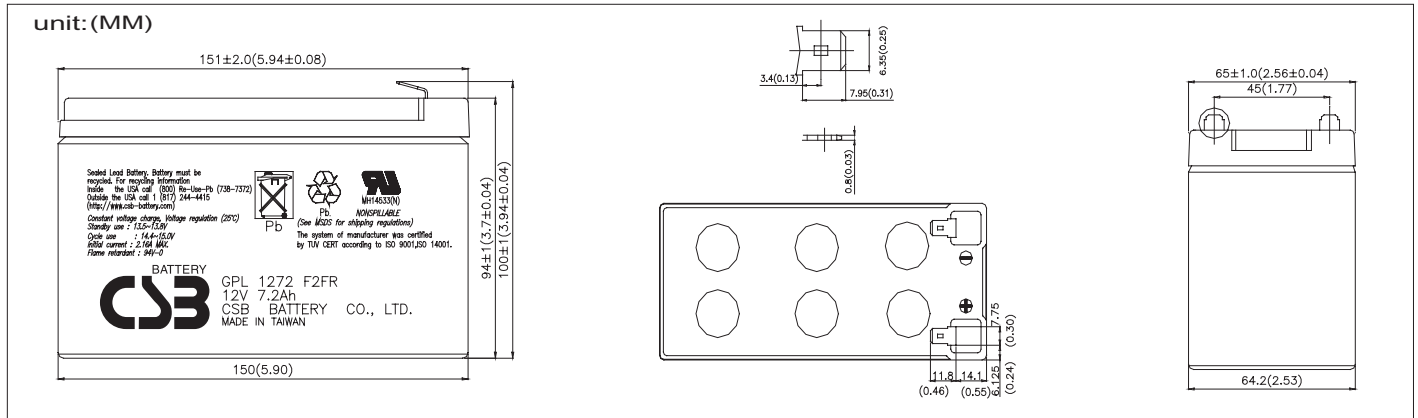
GPL 1272 F2FR is a general purpose battery with 5~8 years service life under normal float charge at 25°C (77°F). As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

### Specification

<b>Cells Per Unit</b>	6
<b>Voltage Per Unit</b>	12
<b>Capacity</b>	7.2Ah @ 20hr-rate to 1.75V per cell @25 °C(77°F)
<b>Weight</b>	Approx. 2.65kg(6.49 lbs)
<b>Maximum Discharge Current</b>	110A(5sec)
<b>Internal Resistance</b>	Approx. 20mΩ
<b>Operating Temperature Range</b>	Discharge: -20°C~50°C (-4°F~122°F) Charge: 0°C~40°C (32°F~104°F) Storage: -20°C~40°C (-4°F~104°F)
<b>Nominal Operating Temperature Range</b>	25°C±3°C (77°F±5°F)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
<b>Recommended Maximum Charging Current Limit</b>	2.16A
<b>Equalization and Cycle Service</b>	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
<b>Self Discharge</b>	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.
<b>Terminal</b>	Faston Tab 187/250
<b>Container Material</b>	-ABS(UL94-V0 flame retardant case)

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)

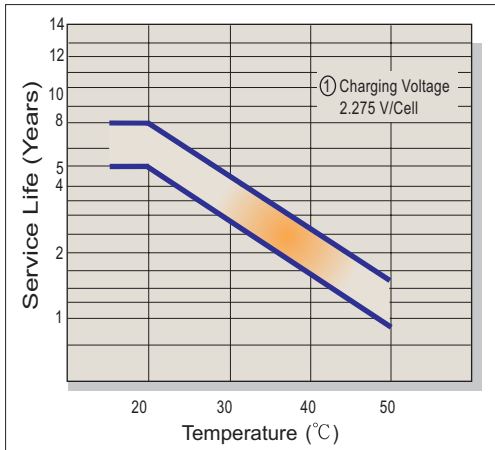
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	24.10	19.20	16.70	9.05	4.61	2.74	1.87	1.53	1.29	0.90	0.74	0.37
1.67V	23.70	18.70	15.90	8.90	4.58	2.73	1.85	1.51	1.28	0.89	0.73	0.37
1.70V	23.50	18.50	15.60	8.84	4.57	2.72	1.84	1.50	1.27	0.88	0.73	0.37
1.75V	22.20	17.40	14.40	8.52	4.48	2.69	1.80	1.44	1.20	0.86	0.71	0.36
1.80V	20.90	16.20	13.20	8.19	4.39	2.66	1.75	1.38	1.13	0.85	0.69	0.35
1.85V	19.60	15.10	12.00	7.87	4.30	2.63	1.71	1.32	1.06	0.83	0.68	0.34

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

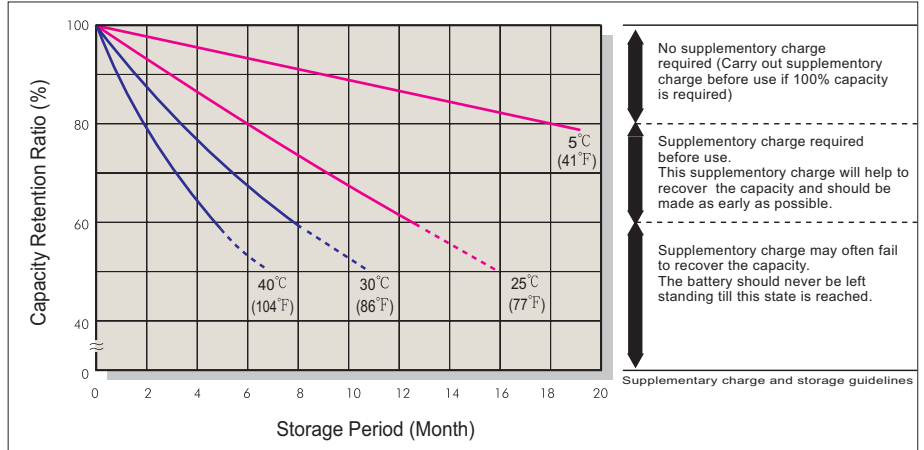
F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	258.00	210.00	185.00	103.00	54.00	32.20	22.00	18.00	15.30	10.70	8.78	4.46
1.67V	256.00	204.00	166.20	101.60	53.60	32.20	21.80	17.80	15.10	10.50	8.68	4.40
1.70V	256.00	204.00	158.00	101.00	53.60	32.20	21.80	17.70	15.00	10.40	8.64	4.36
1.75V	244.00	193.00	154.60	98.00	52.60	31.80	21.20	17.06	14.26	10.26	8.48	4.28
1.80V	234.00	183.00	151.00	95.20	51.60	31.60	20.80	16.40	13.50	10.10	8.30	4.20
1.85V	222.00	173.00	147.60	92.20	50.60	31.20	20.40	15.76	12.76	9.96	8.14	4.12

● All mentioned values are average values.

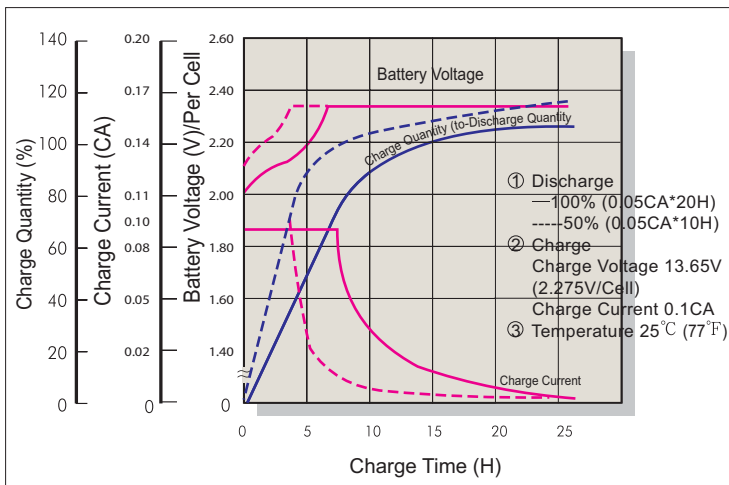
## Trickle (or Float) Service Life



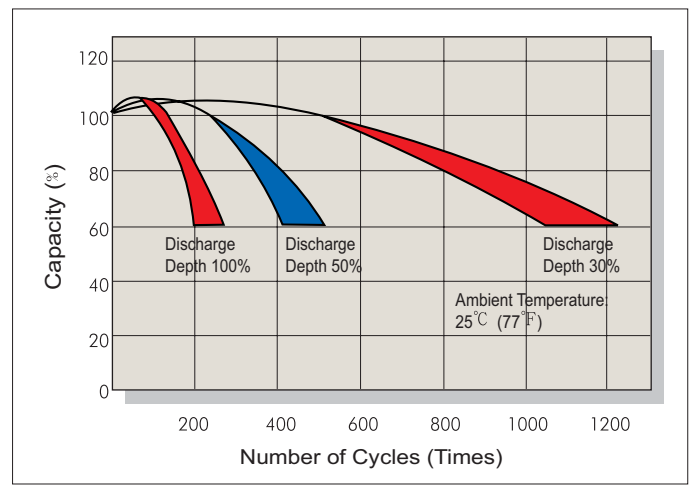
## Capacity Retention Characteristic



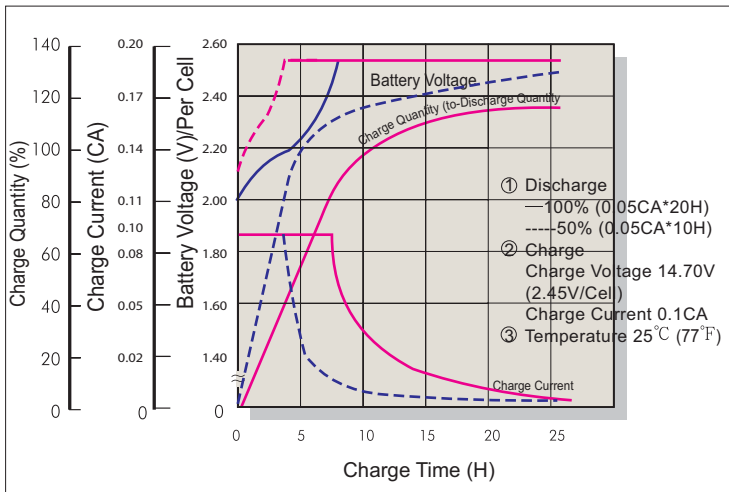
## Battery Voltage and Charge Time for Standby Use



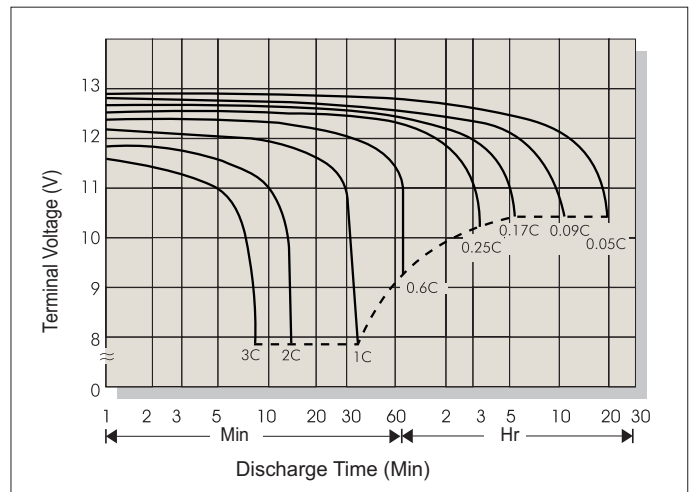
## Cycle Service Life



## 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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