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GP 1272 28W ▶ 12V 28W

GP 1272 28W is a general purpose battery up to 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.



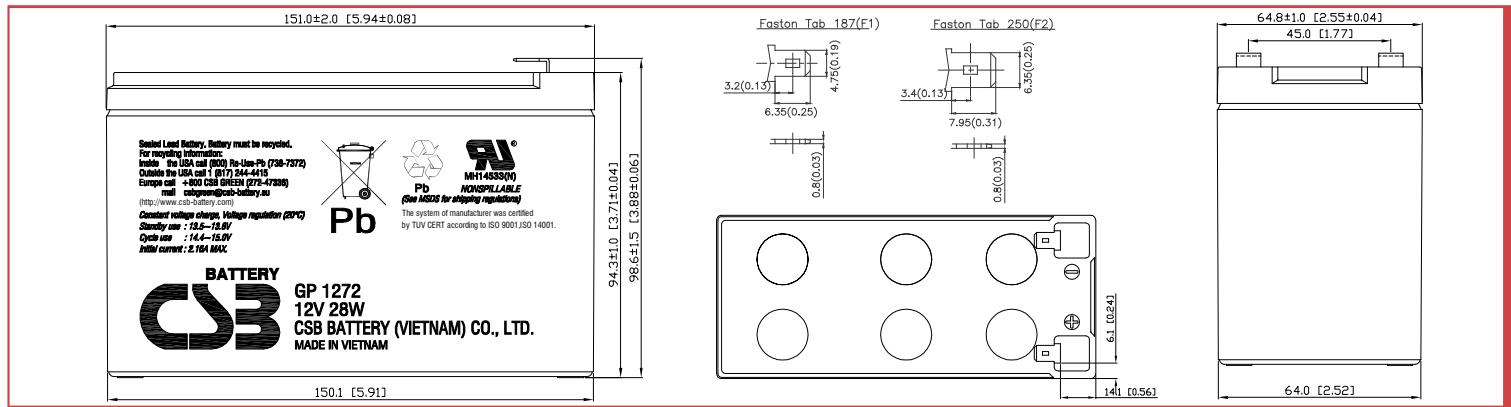
► Specification

Cells Per Unit	6
Voltage Per Unit	12
Capacity	28.7W @ 15min-rate to 1.67V per cell @25°C (77°F)
Weight	Approx. 2.1 kg(4.63 lbs)
Maximum Discharge Current	100A/130A(5sec)
Internal Resistance	Approx. 21 mΩ
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 Current Limit	2.16A
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	F1/F2-Faston Tab187/250
Container Material	ABS(UL 94-HB/File E50263)*Flammability resistance of (UL 94-V0/File E88637) 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 :	Overall Height (H)	Container height (h)	Length (L)	Width (W)
Unit: mm (inch)	98.6±1.5 (3.88±0.06)	94.3±1 (3.71±0.04)	151±2 (5.94±0.08)	64.8±1 (2.55±0.04)



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

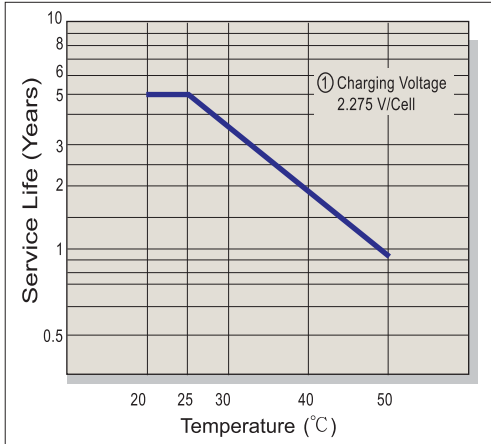
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	58.3	39.7	34.1	29.9	24.1	20.8	15.0	12.0	8.73	4.98	3.52
1.67V	52.8	36.8	31.9	28.3	23.5	20.4	14.9	11.9	8.65	4.95	3.50
1.70V	50.2	35.4	30.8	27.5	23.0	20.1	14.7	11.8	8.61	4.92	3.48
1.75V	45.7	32.6	28.7	26.0	22.1	19.5	14.4	11.6	8.53	4.89	3.46
1.80V	41.1	29.8	26.6	24.4	20.7	18.5	13.9	11.2	8.26	4.81	3.41
1.85V	36.5	27.3	24.5	22.7	19.3	17.1	13.0	10.6	7.92	4.63	3.31

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

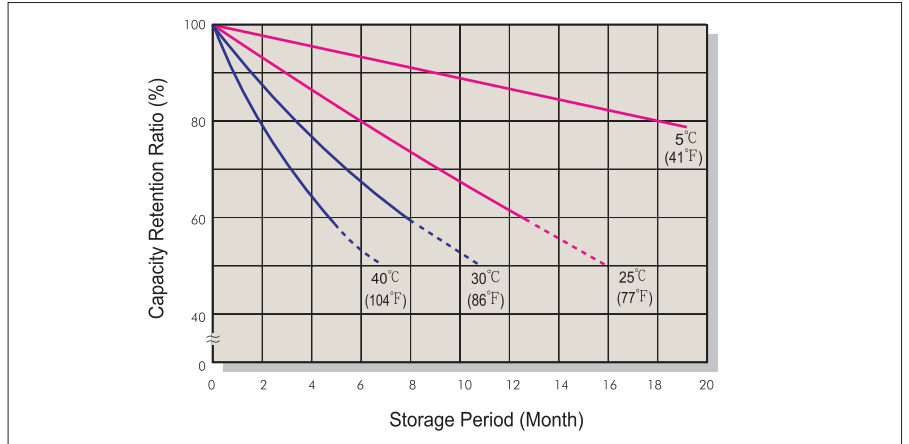
F.V/Time	2MIN	4MIN	5MIN	6MIN	8MIN	10MIN	15MIN	20MIN	30MIN	60MIN	90MIN
1.60V	595	410	356	318	268	232	174	139	101	58.5	41.8
1.67V	552	387	339	305	262	229	172	138	100	58.1	41.6
1.70V	532	373	329	298	260	226	171	137	99.3	57.8	41.4
1.75V	499	350	312	286	249	220	168	135	98.8	57.4	41.1
1.80V	464	327	294	272	237	212	162	132	96.8	56.4	40.6
1.85V	425	305	275	256	220	197	152	125	93.1	54.9	39.6

Ratings presented herein are subject to revision without notice. Please refer to www.csb-battery.com to confirm the latest version.

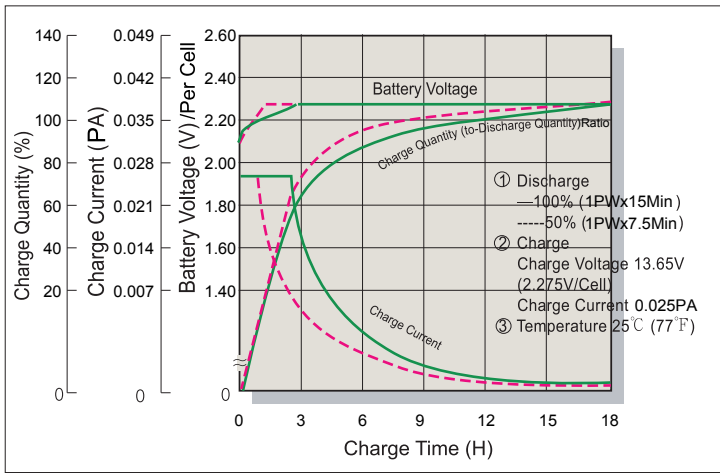
Trickle (or Float) Service Life



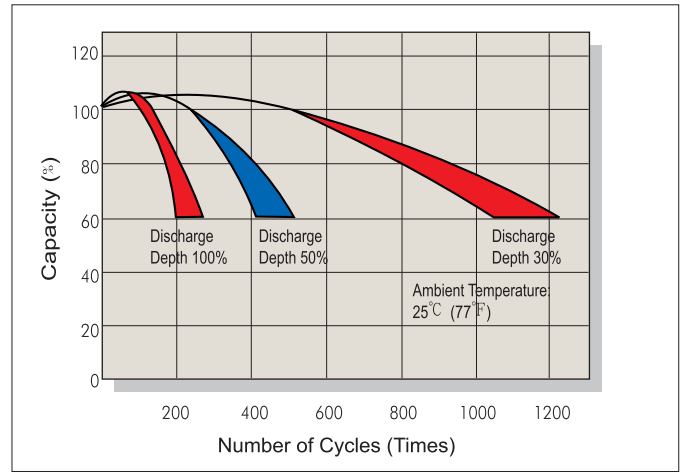
Capacity Retention Characteristic



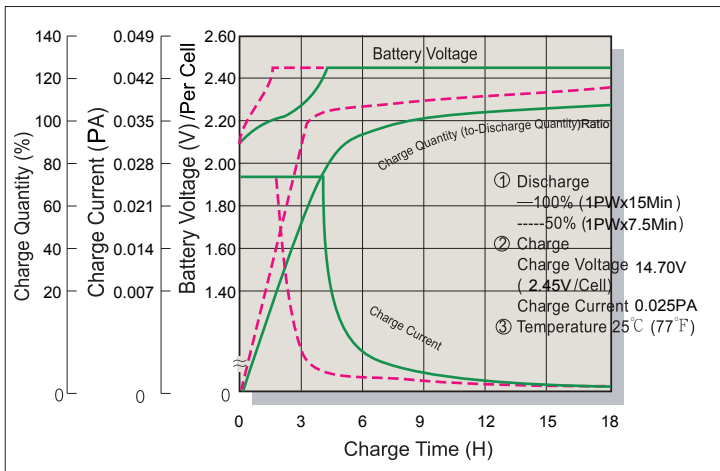
Battery Voltage and Charge Time for Standby Use



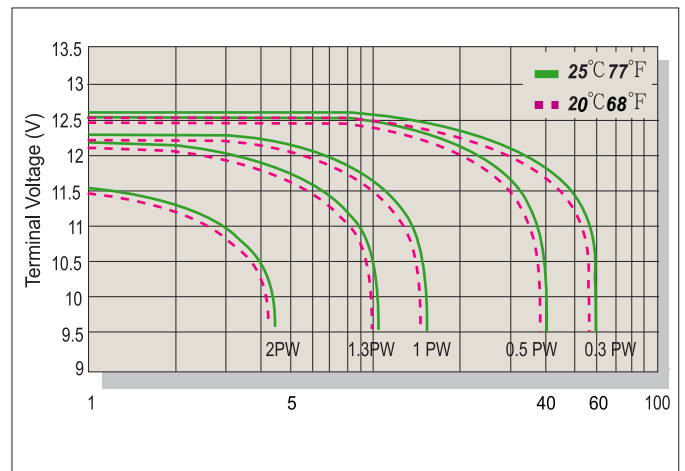
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



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	0.1PA
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	1.60	1.30
Discharge Power(W)	0.1P>(W)	0.1P≤(W)<0.25P	0.25P≤(W)<1.0P	(W)≥1.0P