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GPL 12880 ▶ 12V 88Ah

GPL 12880 is a general purpose battery up to 10 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	88 Ah @ 20hr-rate to 1.75V per cell @25 °C (77°F)
Weight	Approx. 29.7 kg(65.48 lbs)
Maximum Discharge Current	800A(5sec)
Internal Resistance	Approx. 4.5 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	26.4A
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	I2-Thread lead alloy recessed terminal to accept M6/M8 bolt
Container Material	Polypropylene(UL 94-V0/File E50955)*Flammability resistance of (UL 94-HB/File E216959) can be available upon request.



MH14533(N)



ISO9001
No.:041005117



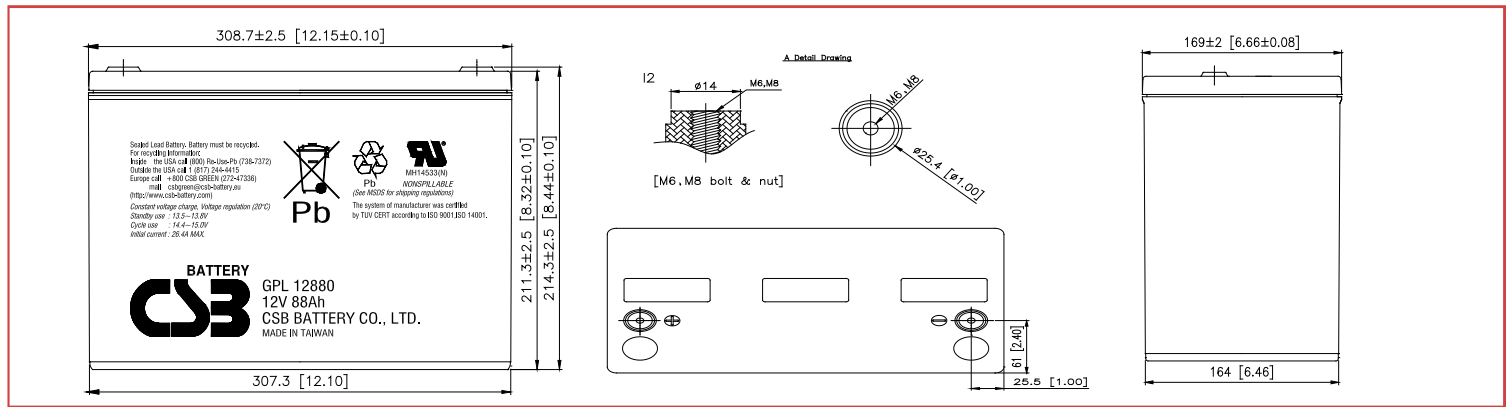
ISO 14001
NO.UM 1-12-0045

CSB-manufactured VRLA 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)	214.3±2.5 (8.44±0.1)	211.3±2.5 (8.32±0.1)	308.7±2.5 (12.15±0.1)	169±2 (6.65±0.08)



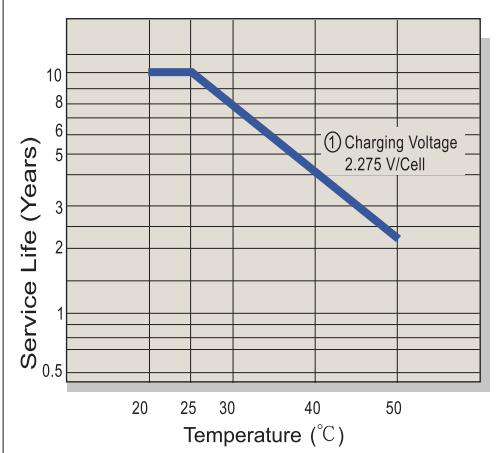
Constant Current Discharge Characteristics Unit:A (25°C ,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	349	232	175	103	62.8	36.3	25.6	20.3	17.0	11.2	9.21	4.88
1.67V	321	225	171	102	62.4	36.0	25.5	20.2	16.9	11.0	9.13	4.85
1.70V	311	219	169	101	61.4	35.7	25.2	20.1	16.8	11.0	9.11	4.83
1.75V	274	199	163	99.0	60.3	35.1	25.1	19.9	16.6	10.9	8.96	4.74
1.80V	246	186	154	96.1	58.8	34.6	24.6	19.7	16.2	10.8	8.86	4.67
1.85V	215	170	138	90.3	55.8	32.9	23.8	18.8	15.8	10.4	8.52	4.49

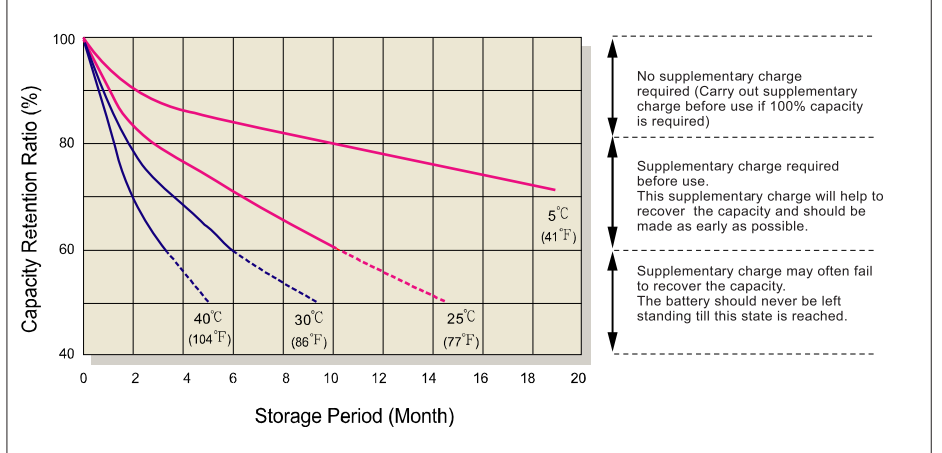
Constant Power Discharge Characteristics Unit:W (25°C ,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	3,535	2,496	1,941	1,177	720	434	306	243	203	136	110	58.3
1.67V	3,307	2,417	1,919	1,169	719	428	306	242	202	135	109	57.9
1.70V	3,202	2,373	1,888	1,166	716	426	304	240	201	134	109	57.8
1.75V	2,995	2,261	1,828	1,145	707	424	301	238	200	132	108	57.5
1.80V	2,782	2,129	1,734	1,113	694	418	298	236	198	130	107	57.1
1.85V	2,434	1,955	1,581	1,061	671	400	287	229	190	125	103	55.3

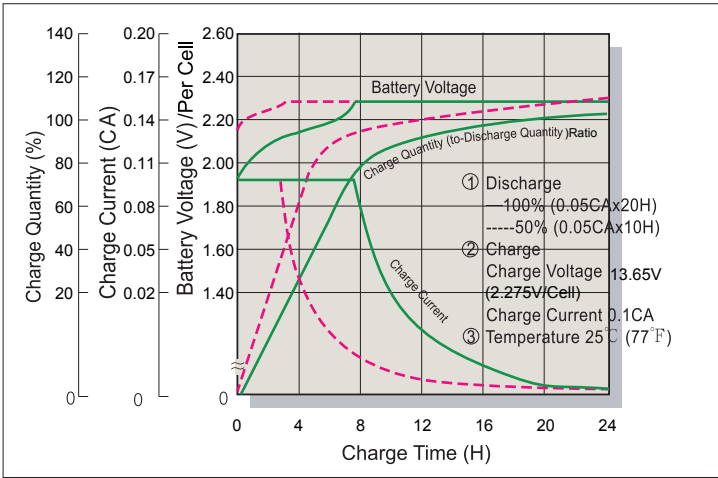
Trickle (or Float) Service Life



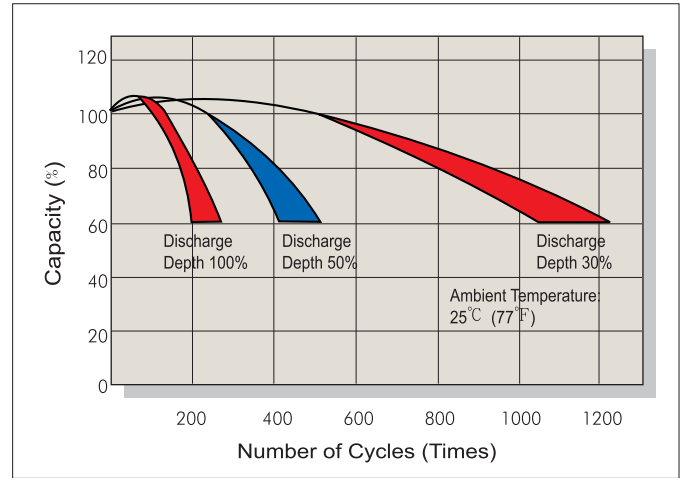
Capacity Retention Characteristic



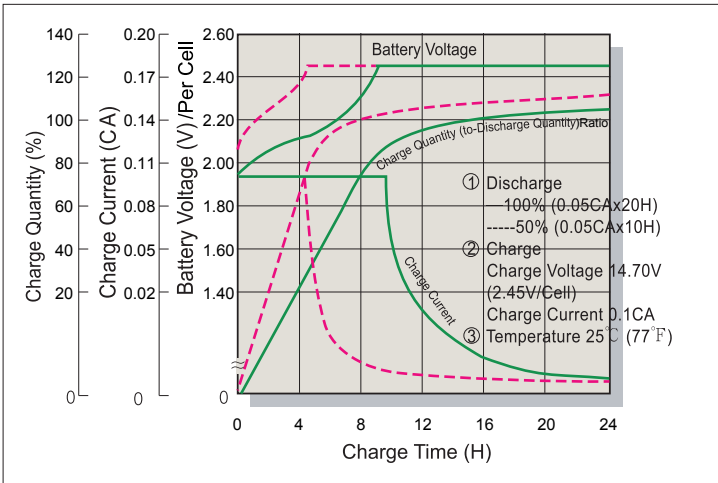
Battery Voltage and Charge Time for Standby Use



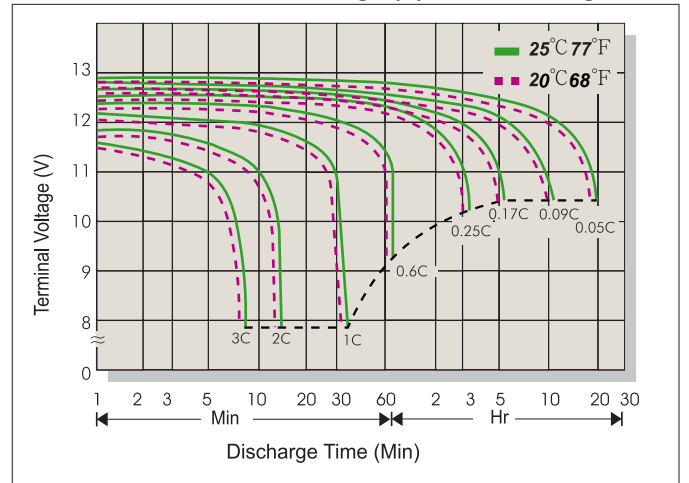
Cycle Service Life



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	0.3C
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	1.60	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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