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GP 1245 ▶ 12V 4.5Ah

GP 1245 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

CellsPerUnit	6
Voltage PerUnit	12
Capacity	4.5Ah@20hr-rateto1.75Vpercell @25°C (77°F)
Weight	Approx.1.66 kg(3.66 lbs)
Maximum DischargeCurrent	60A/90A(5sec)
Internal Resistance	Approx.40.5 m?
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)
FloatCharging Voltage	13.5 to 13.8 VDC/unit Average at 25°C (77°F)
RecommendedMaximum Charging CurrentLimit	1.35A
Equalization andCycleService	14.4 to 15.0 VDC/unit Average at 25°C (77°F)
SelfDischarge	CSBBatteries canbestoredformorethan6months at 25°C (77°F). Pleasecharge batteries beforeusing. For hightemperatures thertimeinterval willbeshorter.
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.



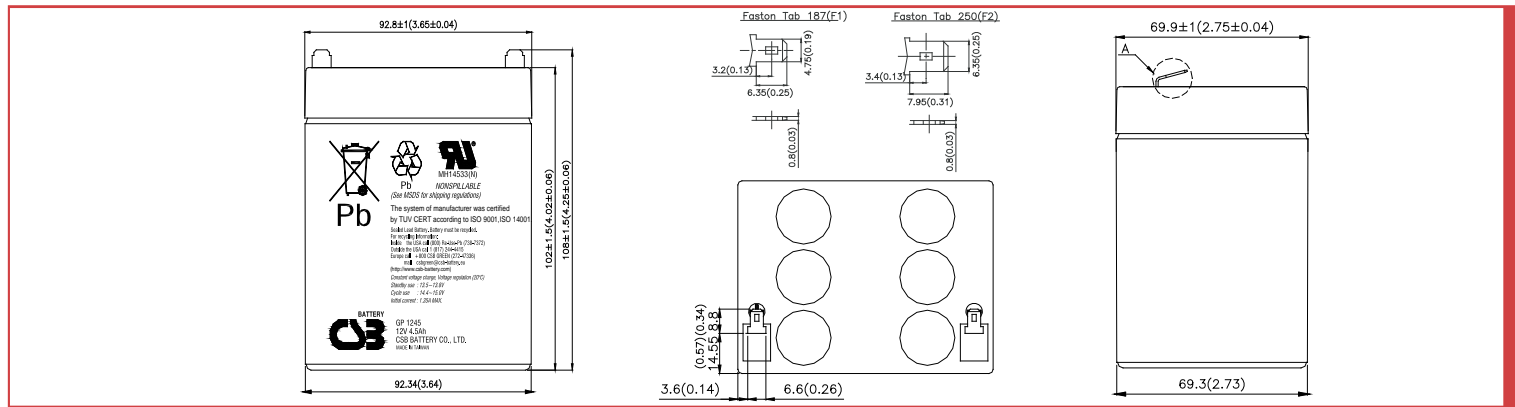
CSB-manufactured VRLA batteriesareUL-recognizedcomponents underUL924and UL1989.

CSBisalsocertifiedby ISO9001and ISO14001.

► Dimensions :

Unit: mm (inch)

Overall Height (H)	Container height (h)	Length (L)	Width (W)
108±1.5 (4.25±0.06)	102±1.5 (4.02±0.06)	92.8±1 (3.65±0.04)	69.9±1 (2.75±0.04)



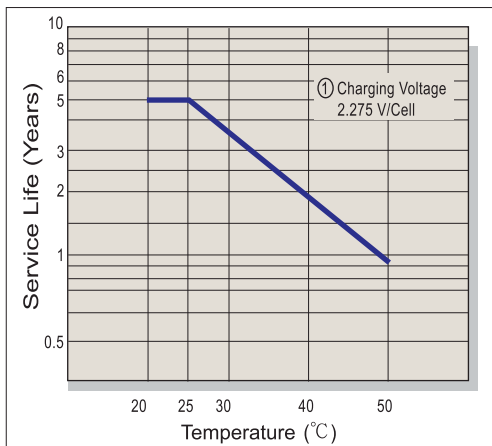
Constant Current Discharge Characteristics Unit:A (25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	18.7	12.3	9.08	5.37	3.11	2.26	1.80	1.26	0.81	0.53	0.43	0.23
1.67V	17.6	11.8	8.88	5.31	3.09	2.25	1.79	1.24	0.80	0.53	0.43	0.23
1.70V	17.0	11.6	8.79	5.28	3.08	2.23	1.78	1.24	0.80	0.53	0.43	0.23
1.75V	16.1	11.2	8.62	5.21	3.06	2.22	1.77	1.23	0.80	0.53	0.43	0.22
1.80V	15.0	10.7	8.42	5.13	3.03	2.21	1.76	1.22	0.80	0.52	0.43	0.22
1.85V	13.8	10.3	8.21	5.04	3.00	2.18	1.74	1.21	0.79	0.52	0.42	0.22

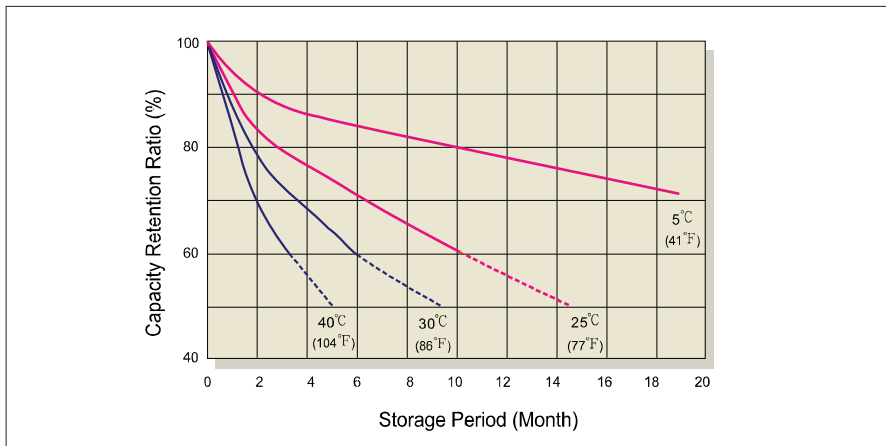
Constant Power Discharge Characteristics Unit:W (25°C,77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	90MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	221	145	110	65.9	38.6	27.9	22.2	16.1	10.7	7.09	5.79	3.19
1.67V	206	139	107	65.4	38.4	27.7	22.0	16.0	10.6	7.08	5.78	3.17
1.70V	199	137	105	64.9	38.1	27.6	21.9	15.9	10.5	7.04	5.76	3.16
1.75V	188	133	102	64.7	38.0	27.5	21.8	15.8	10.4	7.02	5.74	3.16
1.80V	177	128	100	63.6	37.7	27.2	21.5	15.7	10.3	6.96	5.71	3.13
1.85V	165	122	96.6	60.9	36.7	26.7	21.3	15.5	10.2	6.89	5.63	3.09

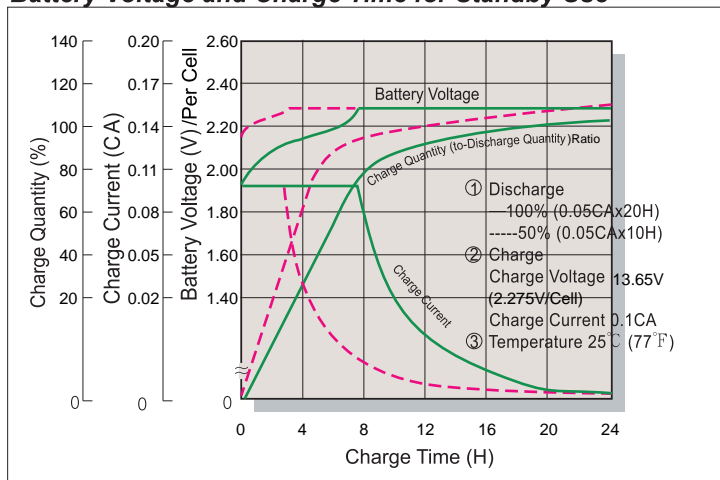
Trickle (or Float) Service Life



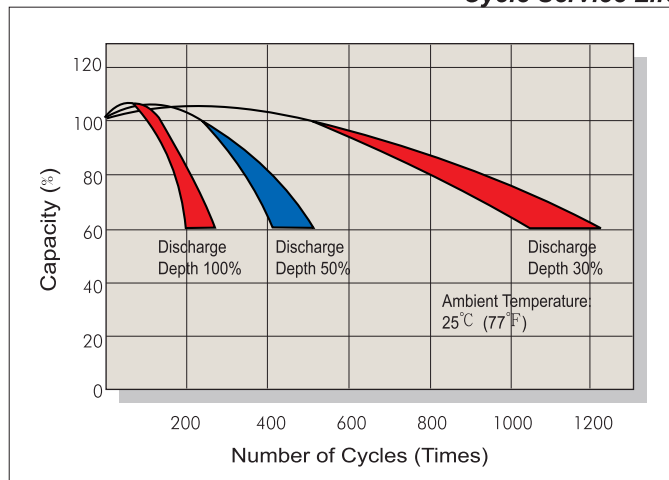
Capacity Retention Characteristic



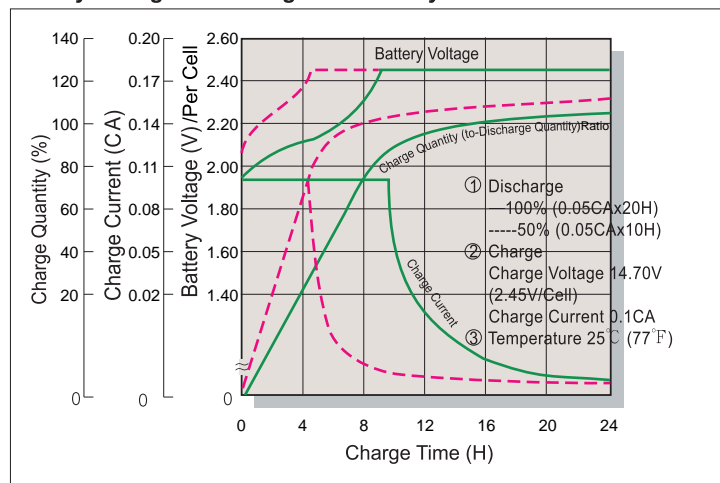
Battery Voltage and Charge Time for Standby Use



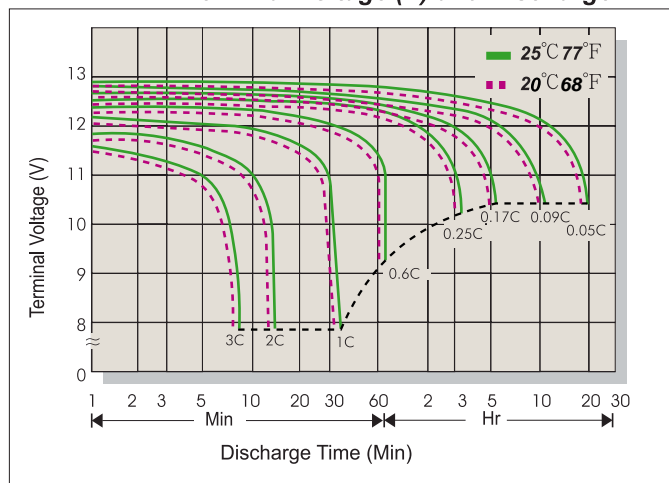
Cycle Service Life



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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