



TPL 12800

12V 80Ah

TPL12800 is a general purpose battery up to 12 years expected life under normal float charge. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.

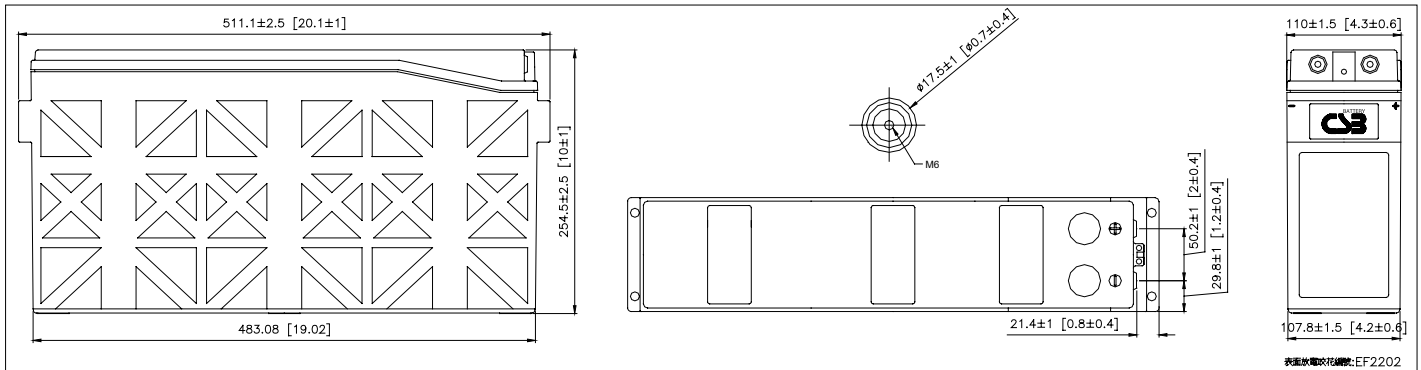
Specification

Nominal Voltage(V)	12
Capacity _{25 °C (77°F)}	80Ah @ 8hr-rate to 1.75V per cell
Dimensions (mm)	Height : 254.5 mm(10.02 inch)
	Length : 511.1 mm(20.12 inch)
	Width : 110 mm(4.33 inch)
Weight	Approx. 36kg(79.2 lbs)
Internal Resistance. Approx (mΩ)	Approx. 4.5mΩ
FlameRetardantContainer/ Cover UL - Laboratories Rating	PPE(UL 94-V0/File E161759)/L.O.I higher than 28 .
Float Charging _{25 °C (77°F)}	2.275±0.025V/cell Temperature coefficient -3.3mV/°C (1.8mV/°F)
Maximum Discharge Current in 5 seconds	800A
Maximum Charge Current(C/5)	24A
Service 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)
Terminal Type	I2-Thread lead alloy recessed terminal to accept M6 bolt
Terminal Hardware Initial Torque	110-in-lbs.(12.4 N-m)



CSB-manufactured batteries are UL-recognized components under UL924 and UL 1989. CSB is also certified by ISO 9001 and ISO 14001.

Dimensions



TPL12800

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

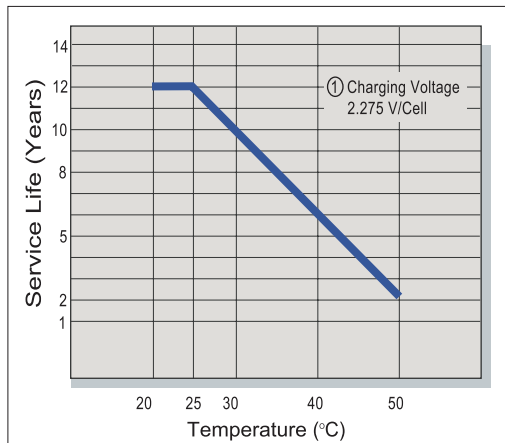
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	7HR	8HR	10HR	20HR
1.67V	148	94.3	55.3	32.1	23.7	19.1	15.8	13.5	11.8	10.4	8.50	4.45
1.70V	140	90.8	53.6	31.5	23.4	18.8	15.6	13.3	11.6	10.2	8.40	4.40
1.75V	126	84.0	51.1	30.3	22.8	18.3	15.0	12.8	11.2	10.0	8.20	4.30
1.80V	111	77.1	48.3	29.0	22.1	17.4	14.5	12.5	10.9	9.65	8.00	4.20
1.83V	103	72.8	46.3	28.2	21.3	16.9	14.1	12.2	10.6	9.35	7.70	4.10
1.85V	97.3	70.3	44.8	27.5	20.8	16.6	13.8	11.9	10.4	9.20	7.60	4.00
1.90V	84.1	62.9	41.2	25.7	18.9	15.0	12.5	10.7	9.40	8.40	6.95	3.70

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

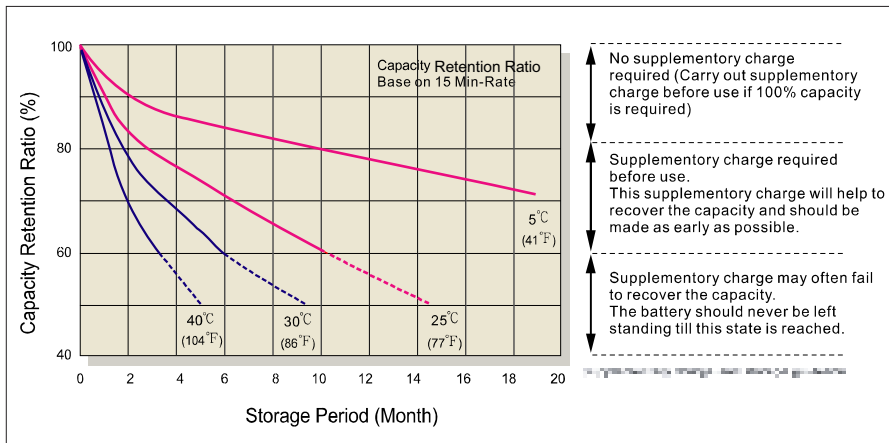
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	7HR	8HR	10HR	20HR
1.67V	1,575	1,018	606	357	265	214	178	152	133	118	96.2	50.5
1.70V	1,523	995	597	353	263	213	177	151	132	116	95.8	50.3
1.75V	1,405	946	582	345	261	210	173	149	129	115	94.8	49.8
1.80V	1,264	883	556	335	254	203	169	146	127	113	93.1	49.3
1.83V	1,174	839	539	327	249	199	166	143	124	111	91.7	48.5
1.85V	1,110	808	525	321	245	196	163	140	123	109	90.2	47.6
1.90V	967	731	485	305	226	180	150	128	113	101	83.5	44.5

• All mentioned values are average values.

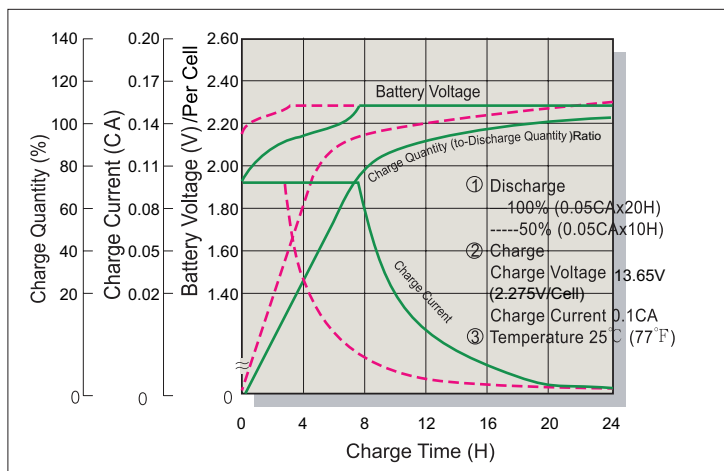
Trickle (or Float) Service Life



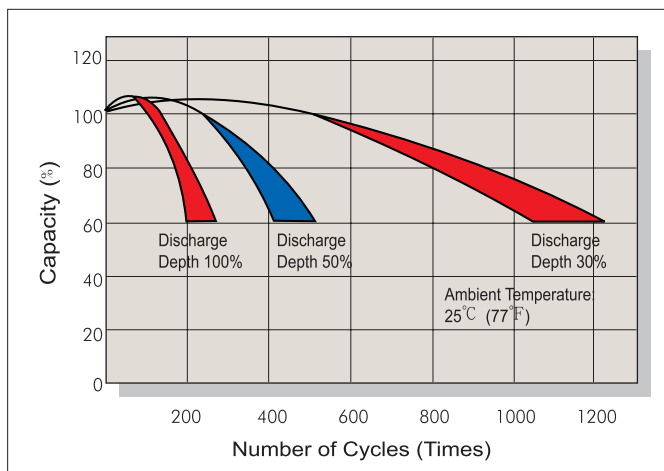
Capacity Retention Characteristic



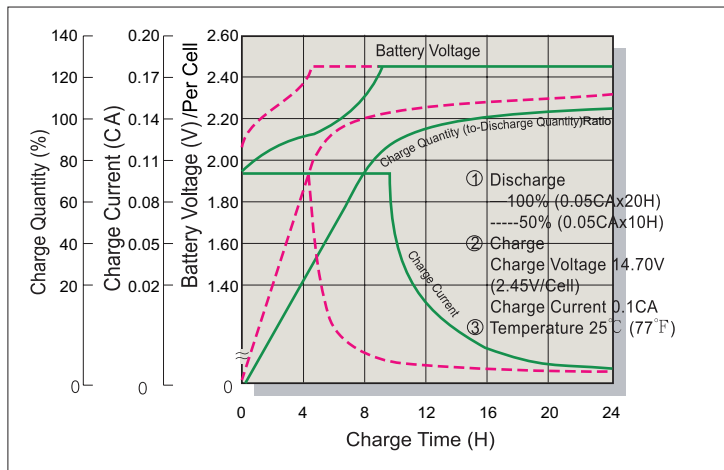
Battery Voltage and Charge Time for Standby Use



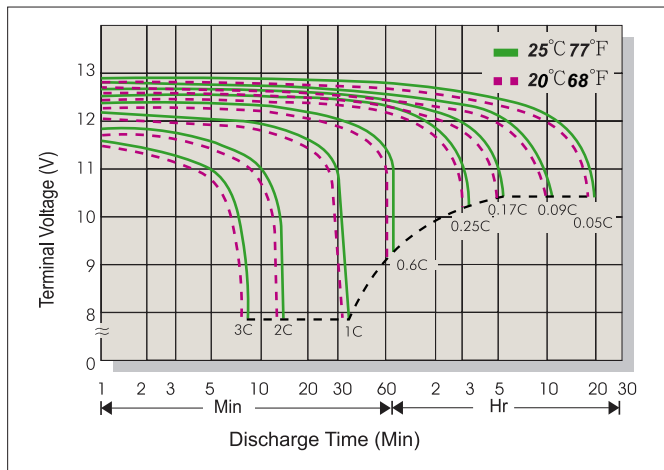
Cycle Service Life



Battery Voltage and Charge Time for Cycle Use



Terminal Voltage (V) and Discharge Time



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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