



TPL 12800

12V 80.0Ah

TPL 12800 is a general purpose battery with 10 years expected life under normal float charge. As with all CSB batteries, all are rechargeable, highly efficient, leak proof and maintenance free.



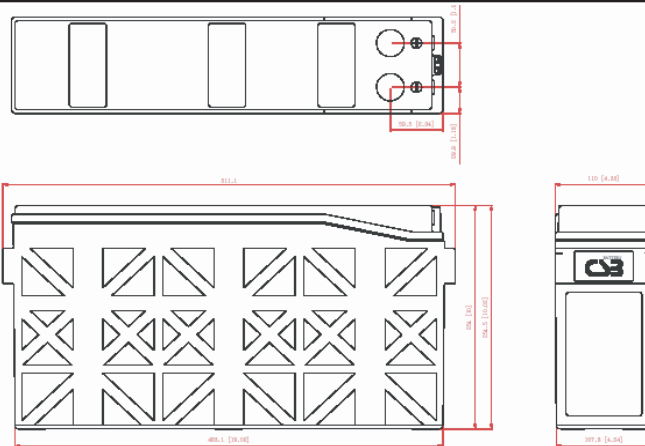
Specification

Nominal Voltage	12
Capacity _{25 °C (77°F)}	100Ah @ 8hr-rate to 1.75V per cell
Dimensions	Height : 254mm(10.0inch)
	Length : 511mm(20.1inch)
	Width : 110mm(4.33inch)
Weight	Approx. 35kg(77 lbs)
Internal Resistance	Approx. 3.5mΩ
Flame Retardant Container / Cover UL - Laboratories Rating	UL94-V0(PP)/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)	20A
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	Threaded copper alloy insert terminal to accept 1/4"-20bolt
Terminal Hardware Initial Torque	110-in-lbs.(12.4 N-m)



CSB-manufactured batteries are UL-recognized components under UL924 and UL1989. CSB is also certified by ISO 9001 and ISO 14001.

Dimensions



TPL12800

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

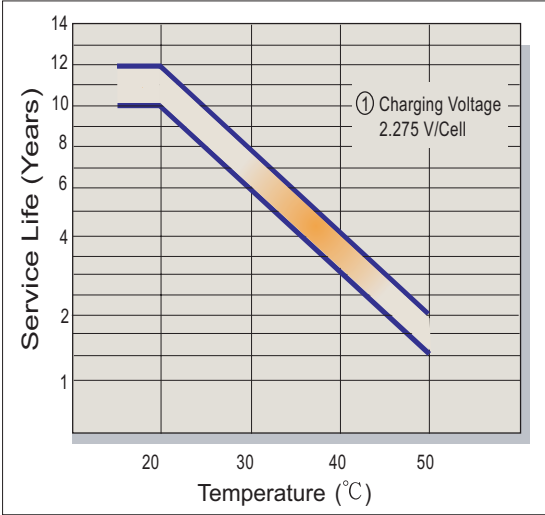
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	7HR	8HR	10HR	20HR
1.67V	148.40	94.25	55.25	32.10	23.65	19.05	15.80	13.50	11.75	10.40	8.50	4.45
1.70V	142.30	92.40	54.75	31.75	23.40	18.80	15.60	13.30	11.60	10.20	8.40	4.40
1.75V	131.80	88.05	53.75	31.25	22.75	18.25	15.00	12.80	11.20	10.00	8.20	4.30
1.80V	118.65	82.70	51.50	30.40	22.05	17.40	14.50	12.50	10.85	9.65	7.95	4.20
1.83V	108.10	77.85	49.35	29.55	21.25	16.90	14.10	12.15	10.55	9.35	7.70	4.10
1.85V	101.65	74.70	47.65	28.85	20.75	16.55	13.75	11.85	10.35	9.20	7.60	4.00
1.90V	84.05	62.85	41.15	25.65	18.90	15.00	12.50	10.65	9.40	8.40	6.95	3.70

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

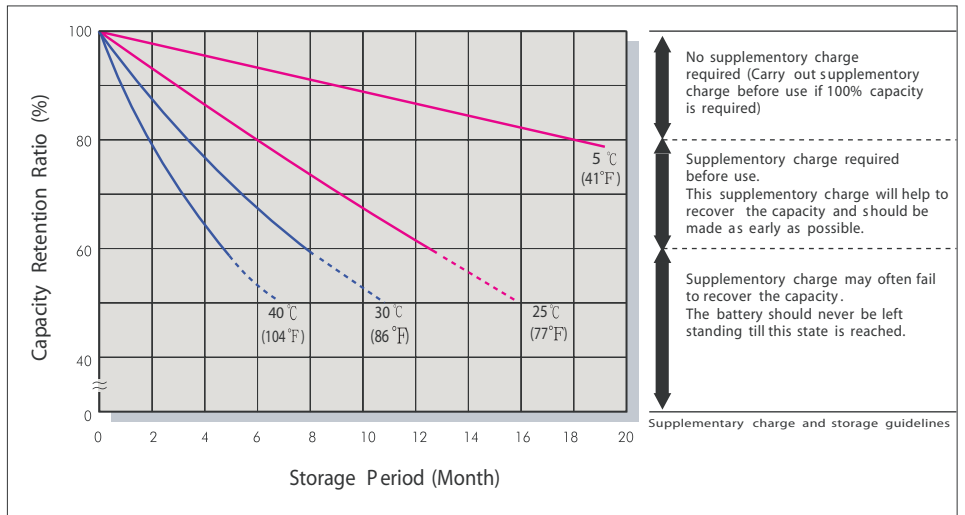
F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	6HR	7HR	8HR	10HR	20HR
1.67V	1,575.27	1,017.90	605.54	356.63	265.12	214.41	178.30	152.50	132.83	117.62	96.22	50.51
1.70V	1,522.61	1,007.16	604.99	355.92	264.54	213.38	177.45	151.42	132.18	116.28	95.84	50.34
1.75V	1,436.62	973.83	603.34	355.16	260.72	209.97	172.88	147.71	129.36	115.50	94.79	49.84
1.80V	1,318.20	928.31	587.10	351.12	256.11	202.88	169.36	146.13	126.95	112.95	93.09	49.31
1.83V	1,215.04	882.82	569.25	344.41	248.94	198.66	165.96	143.13	124.38	110.28	90.90	48.50
1.85V	1,152.20	853.82	552.74	338.27	244.54	195.62	162.73	140.36	122.65	109.07	90.17	47.56
1.90V	966.58	730.63	484.54	305.11	225.86	179.63	149.88	127.80	112.85	100.88	83.54	44.55

• All mentioned values are average values.

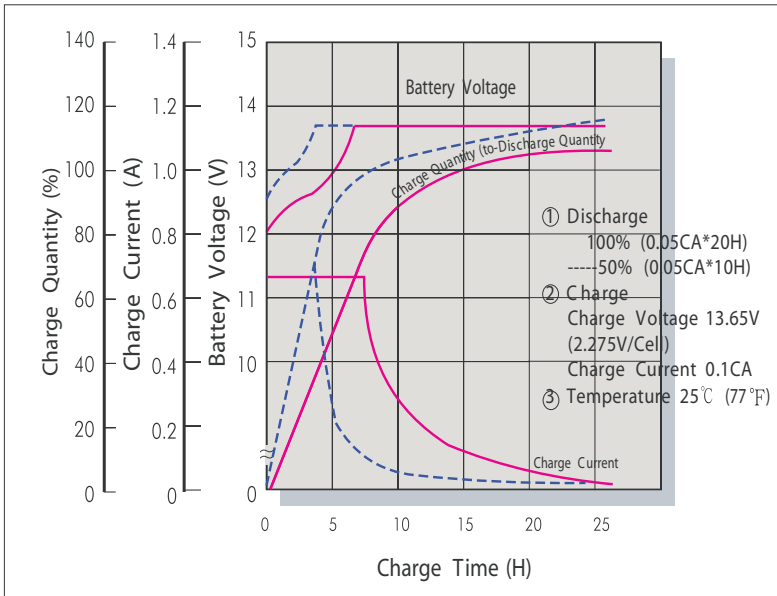
Trickle (or Float) Service Life



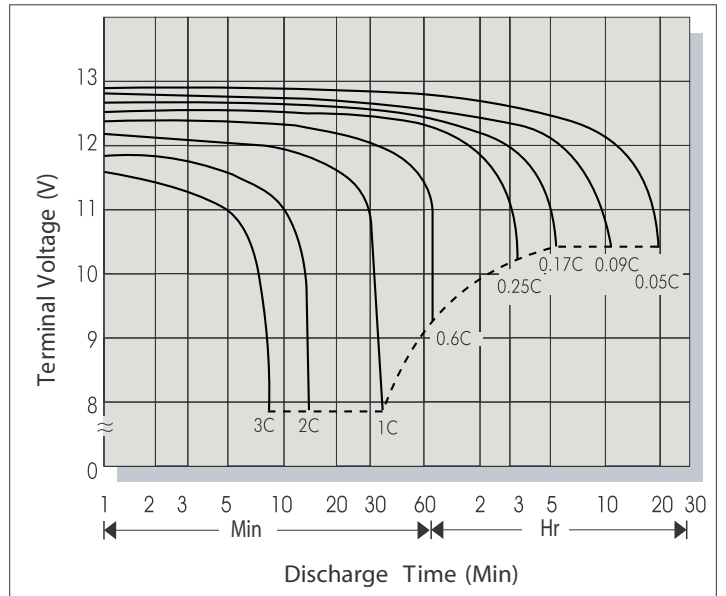
Capacity Retention Characteristic



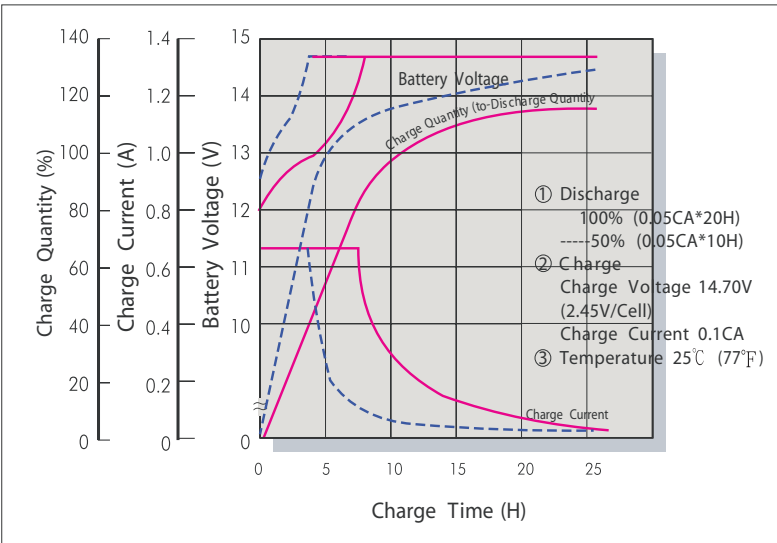
Battery Voltage and Charge Time for Standby Use



Terminal Voltage (V) and Discharge Time (25°C/77°F)



Battery Voltage and Charge Time for Cycle Use



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

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	0.3CA
Standby	25°C(77°F)	2.275	2.25~2.30	

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