



# TPL series TPL121000



## Valve Regulated Lead Acid Battery

Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

### General Design for Standby Power Applications

#### 【Design Life】

Up to 12 Years in Standby Service at 25°C  
Eurobat (20°C) : >12 YEARS VERY LONG LIFE

#### 【Operating Temperature Range】

Nominal Operating Temperature : 25°C (77°F)  
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)

#### 【Float Charging Voltage】

13.5 ~ 13.8 VDC/Unit at 25°C (77°F)

#### 【Equalization Charging Voltage】

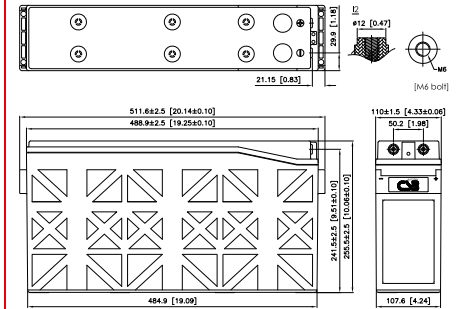
14.4 ~ 15.0 VDC/Unit at 25°C (77°F)

#### 【Self Discharge】

Less than 10% after 90 days, can be stored up to 6 months at 25°C (77°F);  
Fully recharging is required before usage, and charged sooner if stored at higher temperature than 25°C (77°F).

### Specification Design according with IEC 60896-21/22:2004

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	100AH @10HR-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 38.30 Kg (84.41 lbs)		
Maximum Discharge Current	800A (5sec)		
Internal Resistance	Approx. 3.70 mΩ		
Short Circuit Current	2216A		
Maximum Charge Current	30A		
Terminal types	I2 thread lead alloy terminal to accept M6 bolt		
Terminal tightening torque	51.7±10.3 Kgf·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m		
Container Material	Flame Retardant ABS (UL 94-V0)		
Dimensions	Length (L)	511.6±2.5 mm	20.16±0.10 inch
	Width (W)	110.0±1.5 mm	4.44±0.06 inch
	Overall Height (H)	255.5±2.5 mm	10.11±0.10 inch



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

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.67V	186	118	69.1	50.2	40.1	29.6	23.8	19.8	16.9	13.0	10.6	5.56
1.70V	175	114	67.4	49.4	39.4	29.3	23.5	19.5	16.6	12.8	10.5	5.50
1.75V	157	106	64.0	47.3	38.0	28.4	22.8	18.8	16.0	12.5	10.3	5.38
1.80V	139	98.0	60.3	44.7	36.3	27.0	21.8	18.1	15.6	12.1	10.0	5.25
1.83V	129	92.5	58.0	43.5	35.1	26.1	21.1	17.6	15.2	11.7	9.63	5.13
1.85V	122	88.2	56.0	42.5	34.3	25.4	20.7	17.2	14.8	11.5	9.50	5.00

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

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
1.67V	1969	1272	757	554	446	331	268	223	191	147	120	63.1
1.70V	1878	1233	746	549	439	329	267	222	189	145	119	62.9
1.75V	1716	1161	723	534	428	322	261	216	185	144	118	62.3
1.80V	1549	1075	691	511	414	313	254	212	183	141	116	61.6
1.83V	1450	1025	669	502	405	305	246	207	179	138	114	60.6
1.85V	1382	994	655	496	399	299	241	203	175	136	113	59.5

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com)

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Recognized under UL 1989,  
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