



**TPL series**

**TPL122000FR**



**Valve Regulated Lead Acid Battery**

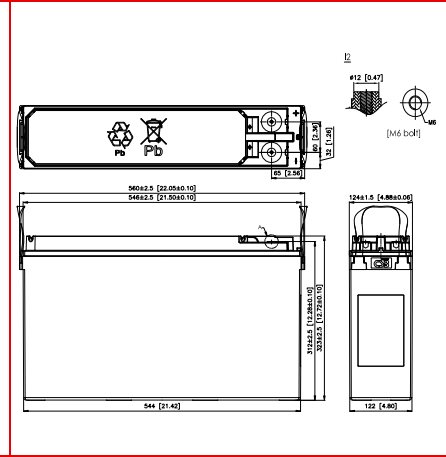
Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**General Design for Standby Power Applications**

<p><b>【Design Life】</b> Up to 15 Years in Standby Service at 20°C</p> <p><b>【Operating Temperature Range】</b> 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)</p>	<p><b>【Float Charging Voltage】</b> 13.5 ~ 13.8 VDC/Unit at 25°C (77°F)</p> <p><b>【Equalization Charging Voltage】</b> 14.4 ~ 15.0 VDC/Unit at 25°C (77°F)</p> <p><b>【Self Discharge】</b> 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).</p>
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**Specification Design according with IEC 60896-21/22:2004**

Nominal Voltage	12V (6 cells per unit)		
Nominal Capacity	200AH @10HR-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 59.70 Kg (131.58 lbs)		
Maximum Discharge Current	1150A		
Internal Resistance	Approx. 3.60 mΩ		
Short Circuit Current	3093A		
Maximum Charge Current	60.0A		
Terminal types	I2 thread lead alloy terminal to accept M6 bolt		
Terminal tightening torque	51.7±10.3 Kg·cm / 44.9±9.0 Lbf·in / 5.1±1.0 N·m		
Container Material	Flame Retardant ABS (UL 94-V0)		
Dimensions	Length (L)	560.0±2.5 mm	22.05±0.10 inch
	Width (W)	124.0±1.5 mm	4.88±0.06 inch
	Overall Height (H)	323.0±2.5 mm	12.72±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	351	235	142	102	80.3	57.1	44.8	37.2	31.9	25.0	20.8	10.9
1.70V	336	230	140	102	79.9	56.9	44.7	37.0	31.8	24.9	20.7	10.8
1.75V	308	217	136	100	79.1	56.3	44.2	36.7	31.5	24.7	20.5	10.7
1.80V	275	201	130	97.9	77.0	55.0	43.3	35.9	30.9	24.3	20.2	10.6
1.83V	256	190	124	94.6	74.6	53.4	42.1	35.1	30.2	23.8	19.8	10.5
1.85V	245	180	120	91.6	72.4	52.0	41.1	34.3	29.5	23.4	19.4	10.3

**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	3638	2535	1582	1178	930	665	525	437	376	296	247	126
1.70V	3538	2493	1568	1174	926	663	523	435	374	295	246	125
1.75V	3352	2386	1533	1159	915	656	518	431	371	293	244	124
1.80V	3062	2215	1470	1124	890	641	508	424	365	289	242	123
1.83V	2858	2091	1418	1088	865	625	497	416	359	286	239	121
1.85V	2735	2001	1376	1057	842	611	487	408	353	282	236	119

\*\*Preliminary spec sheet

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Recognized under UL 1989,  
and certified by ISO 9001, 14001, 45001, 50001.



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