



**TPL series**

**TPL121250AFR**



**Valve Regulated Lead Acid Battery**

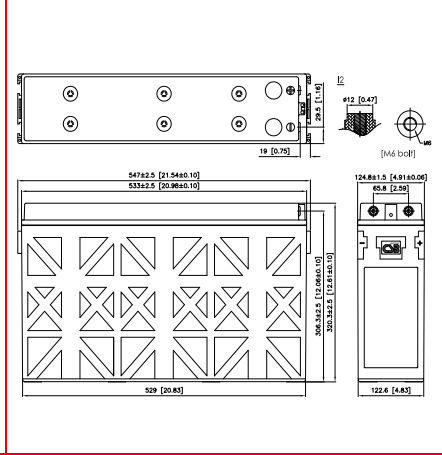
Maintenance-Free Sealed Lead Acid Battery.  
Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99%.

**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	125AH @10HR-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 44.70 Kg (98.52 lbs)		
Maximum Discharge Current	800A (5sec)		
Internal Resistance	Approx.4.50 mΩ		
Short Circuit Current	2327A		
Maximum Charge Current	37.5A		
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)	547.0±2.5 mm	21.54±0.10 inch
	Width (W)	124.8±1.5 mm	4.94±0.06 inch
	Overall Height (H)	320.3±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	232	147	86.3	63.0	50.2	37.0	29.8	24.7	21.1	16.3	13.3	6.95
1.70V	220	142	84.4	61.8	49.1	36.6	29.4	24.4	20.8	15.9	13.1	6.88
1.75V	199	132	81.2	59.3	47.2	35.2	28.5	23.4	20.0	15.6	12.8	6.72
1.80V	176	121	76.7	56.4	45.1	33.8	27.2	22.7	19.5	15.1	12.5	6.56
1.83V	162	115	73.1	54.5	43.8	32.7	26.4	22.0	19.0	14.6	12.0	6.41
1.85V	153	110	70.4	52.7	42.8	31.9	25.5	21.5	18.5	14.4	11.9	6.25

**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	2461	1590	946	695	557	414	335	279	238	184	150	78.9
1.70V	2344	1542	936	693	556	413	333	277	237	182	149	78.7
1.75V	2138	1456	910	681	555	407	328	270	231	180	148	77.9
1.80V	1927	1364	876	665	549	400	317	265	228	176	145	77.0
1.83V	1797	1304	844	649	538	389	310	259	224	172	142	75.8
1.85V	1705	1255	822	633	529	382	306	254	219	170	141	74.3

Please refer to the official site for the latest rating confirmation. URL: [www.csb-battery.com](http://www.csb-battery.com) Issued: 221027-YH-V1

**Sales Offices**

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



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