



TPL series

TPL12600TFR



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)

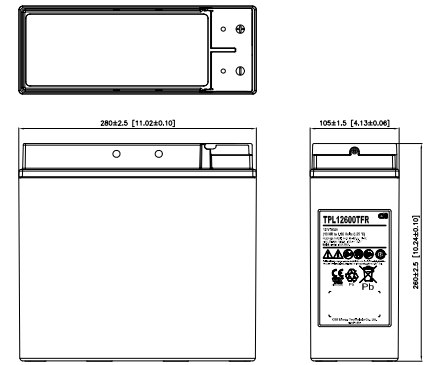
【 Self Discharge 】

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	60AH @10HR-rate to 1.80V per cell @25°C (77°F)		
Weight	Approx. 21.20 Kg (46.72 lbs)		
Maximum Discharge Current	800A (5sec)		
Internal Resistance	Approx. 6.27 mΩ		
Short Circuit Current	-		
Maximum Charge Current	18A		
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)	280.0±2.5 mm	11.02±0.09 inch
	Width (W)	105.0±1.5 mm	4.13±0.05 inch
	Overall Height (H)	260.0±2.5 mm	10.23±0.09 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	125	75.8	44.9	32.7	26.0	18.6	14.7	12.1	10.4	8.10	6.69	3.53
1.70V	121	74.6	44.6	32.5	25.8	18.5	14.6	12.0	10.3	8.05	6.65	3.51
1.75V	118	73.6	44.4	32.4	25.7	18.4	14.5	11.9	10.2	8.02	6.63	3.50
1.80V	110	71.2	43.7	32.1	25.5	18.3	14.4	11.8	10.1	7.96	6.58	3.48
1.83V	99.5	67.4	42.3	31.4	25.0	17.9	14.1	11.7	10.0	7.83	6.48	3.43
1.85V	86.1	62.3	39.7	30.0	23.8	17.2	13.6	11.2	9.64	7.56	6.26	3.31

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	1366	837	505	375	299	216	172	144	123	95.7	78.8	42.4
1.70V	1319	825	503	373	298	215	171	143	122	95.2	78.5	42.2
1.75V	1287	817	501	372	297	214	170	142	121	95.0	78.3	42.1
1.80V	1211	796	495	370	295	213	169	141	120	94.3	77.8	41.8
1.83V	1106	762	482	363	290	210	167	139	119	93.1	76.9	41.3
1.85V	975	713	456	349	278	202	161	134	115	90.1	74.6	40.0

**Preliminary spec sheet

Issued: 240601

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