TPL Series

TPL121600FR Datasheet

12V Front Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.80 VPC @25°C)	160 Ah @10hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	159
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	173
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	156
Max Charge Current (A)	48
Max Discharge Current (A)	800
Short Circuit Current (A)	2593
Internal Resistance (mΩ)	Approx. 3.70
Terminal Type	I2 thread lead alloy terminal to accept M6 bolt
Terminal 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)
Weight (kg. / lb., Approx.)	54.80 / 120.78
Length (L) (mm / in)	547.0±2.5 / 21.54±0.10
Width (W) (mm / in)	124.8±1.5 / 4.94±0.06
Height (H) (mm / in)	320.3±2.5 / 12.72±0.10
Design Life	Up to 12 Years in Standby Service at 25°C Eurobat (20°C): >12 Years Very Long Life
Operating Temperature	Nominal: 25°C (77°F) Discharge: -15°C - 50°C (5°F-122°F) Charge/Storage: -15°C - 40°C (5°F – 104°F)
Float Charging Voltage	13.5 - 13.8 Vdc/battery 25°C (77°F)
Eq. Charging Voltage	14.4 - 15.0 Vdc/battery 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).

Valve Regulated Lead Acid (VRLA) Battery

Maintenance-Free, Absorbent Glass Mat (AGM) Technology for Efficient Gas Recombination of up to 99%

Pure Lead Construction and Proprietary Elements

Designed for Float Service Standby Power Applications

Built in Accordance with IEC 60896-21/22:2004 and UL1989 Recognized (MH14533)

MH14533

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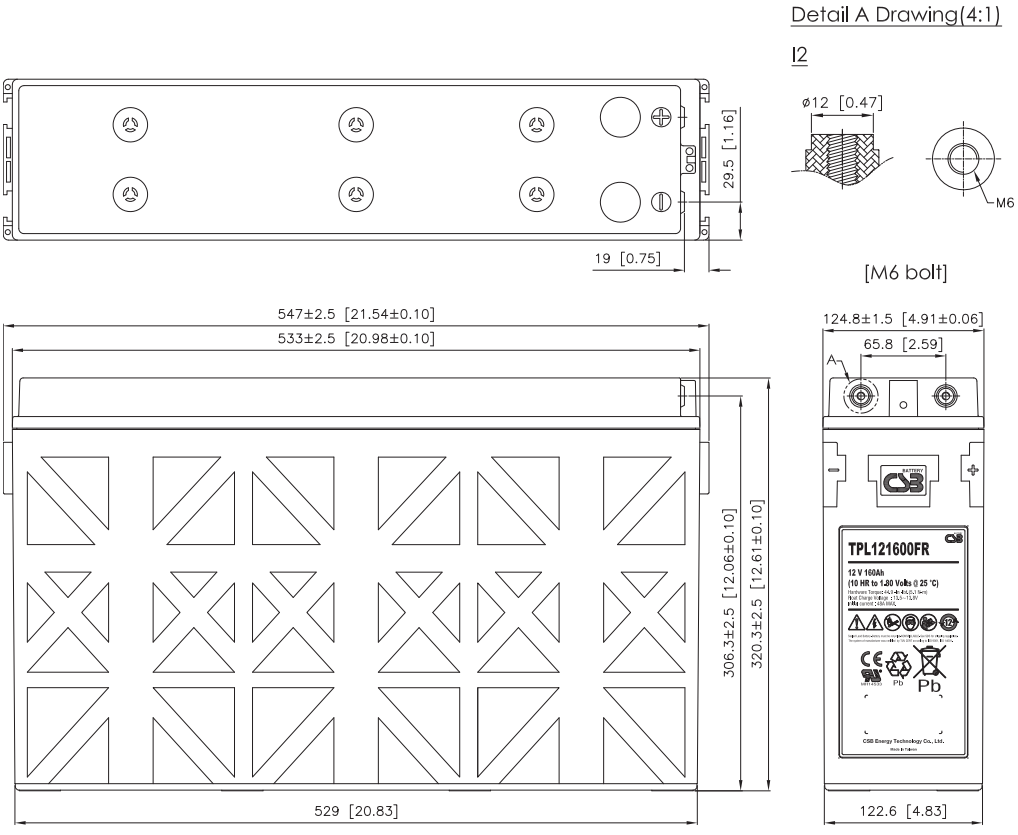
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)												
F.V/Time	**15MIN**	**30MIN**	**60MIN**	**90MIN**	**2HR**	**3HR**	**4HR**	**5HR**	**6HR**	**8HR**	**10HR**	**20HR**
10.02V (1.67 VPC)	264	174	106	77.6	62.2	45.2	36.3	30.7	26.2	20.1	16.5	8.77
10.50V (1.75 VPC)	223	162	101	74.5	60.0	44.3	35.5	30.1	25.8	19.9	16.3	8.67
10.80V (1.80 VPC)	194	152	94.7	70.7	57.4	42.6	34.7	29.4	25.1	19.5	16.1	8.50

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**
10.02V (1.67 VPC)	2672	1930	1223	897	720	529	425	358	305	237	195	104
10.50V (1.75 VPC)	2354	1835	1154	856	692	517	417	356	302	234	191	102
10.80V (1.80 VPC)	2113	1760	1092	821	670	505	410	353	301	233	190	101