TPL Series

TPL121000FR Datasheet

12V Front Terminal VRLA-AGM

Specifications	
Voltage (Vdc)	12
Nominal Capacity (1.80 VPC @25°C)	100 Ah @10hr-rate
Ah Capacity (8-Hr 1.75 VPC @ 25°C)	100
Ah Capacity (20-Hr 1.75 VPC @ 25°C)	107
Ah Capacity (8-Hr 1.80 VPC @ 25°C)	96.8
Max Charge Current (A)	30
Max Discharge Current (A)	800
Short Circuit Current (A)	2216
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.)	38.30 / 84.41
Length (L) (mm / in)	511.6±2.5 / 20.16±0.10
Width (W) (mm / in)	110.0±1.5 / 4.44±0.06
Height (H) (mm / in)	255.5±2.5 / 10.11±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

TPL Series

TPL121000FR Datasheet

12V Front Terminal VRLA-AGM

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)	186	118	69.1	50.2	40.1	29.6	23.8	19.8	16.9	13.0	10.6	5.56
10.50V (1.75 VPC)	157	106	64.0	47.3	38.0	28.4	22.8	18.8	16.0	12.5	10.3	5.38
10.80V (1.80 VPC)	139	98.0	60.3	44.7	36.3	27.0	21.8	18.1	15.6	12.1	10.0	5.25

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**
10.02V (1.67 VPC)	1969	1272	757	554	446	331	268	223	191	147	120	63.1
10.50V (1.75 VPC)	1716	1161	723	534	428	322	261	216	185	144	118	62.3
10.80V (1.80 VPC)	1549	1075	691	511	414	313	254	212	183	141	116	61.6