TPL Series

TPL12400TFR Datasheet

12V Front Terminal VRLA-AGM



Specifications

Voltage (Vdc)	12V
Ah Capacity (8HR to 1.75VPC @25°C)	40.64
Ah Capacity (20HR to 1.75VPC @25°C)	45.20
Ah Capacity (8HR to 1.80VPC @25°C)	40.08
Max Charge Current (A)	12.0
Max Discharge Current (A)	400
Short Circuit Current (A)	1256 (5 sec)
Internal Resistance (mΩ)	Approx. 6.70 Ω
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. 15.0kg / 33.06lb
Length (L) (mm / in)	280.0 ± 2.5mm / 11.02 ± 0.09in
Width (W) (mm / in)	105.0 ± 1.5mm / 4.13 ± 0.05in
Height (H) (mm / in)	195.0 ± 2.0mm / 7.67 ± 0.07in
Design Life	Up to 15 Years in Standby Service @ 20°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 & 10 months with equalization charge @ 25°C (77°F). Full recharge required before use. Charge sooner if stored above 25°C (77°F).

KEY FEATURES

- 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

APPLICATIONS

- Designed for Float Service Standby Power Applications

SAFETY & COMPLIANCE

- Built in Accordance with IEC 60896-21/22:2004
- UL1973 Listed (MH66728)
- UL1989 Recognized (MH14533)
- Certified by TUV NORD according to ISO 9001:2015

MH14533

UL CERTIFIED SAFETY US MH66728

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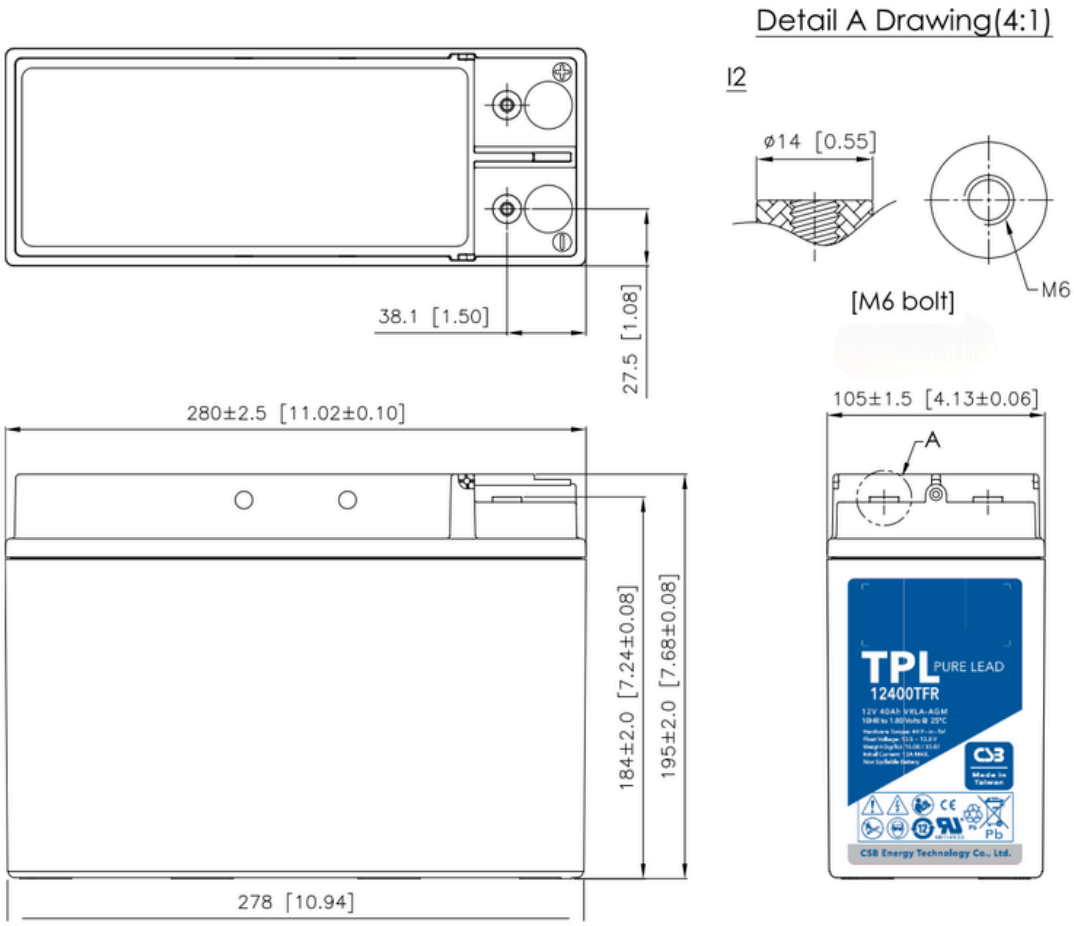
Constant Current Discharge Characteristics Per Battery: Amperes (25°C / 77°F)

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
10.02V (1.67VPC)	86.1	50.9	29.3	21.1	16.7	11.9	9.36	7.71	6.59	5.14	4.23	2.28
10.50V (1.75VPC)	82.4	49.6	28.9	20.9	16.5	11.8	9.26	7.63	6.52	5.08	4.19	2.26
10.80V (1.80VPC)	78.3	47.8	28.3	20.6	16.3	11.6	9.14	7.53	6.43	5.01	4.13	2.23

Constant Power Discharge Characteristics Per Battery: Watts (25°C / 77°F)

F.V/Time	15MIN	30MIN	60MIN	90MIN	2HR	3HR	4HR	5HR	6HR	8HR	10HR	20HR
10.02V (1.67VPC)	951	572	338	248	197	142	113	94.2	80.2	62.2	51.0	27.3
10.50V (1.75VPC)	915	560	335	246	196	141	112	93.6	79.7	61.8	50.7	27.1
10.80V (1.80VPC)	865	543	329	243	194	140	111	92.5	78.7	61.0	50.1	26.8

Line Drawing



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