

LONG DURATION SERIES



PRELIMINARY

TEL12-150F VALVE REGULATED LEAD ACID BATTERY FOR COMMUNICATIONS STANDBY POWER APPLICATIONS

FEATURES

- Low-pressure release valve with flash arrester.
- Thermally welded case-to-cover bond to ensure a leak-proof seal.
- Flame-retardant polypropylene case and cover compliant with UL94 V-0 with an Oxygen Limiting Index of greater than 28.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination 99% plus.
- Thick positive plate design for maximum service float life – 10 year design life.
- Front accessible threaded copper alloy terminals for ease of assembly and reduced maintenance.
- Complies with UL1778, 924, 1989 and 94 V-0.
- UL-recognized component.
- Can be used in any orientation. Upright, side or end mounting recommended.
- Multicell design for ease of installation and maintenance.
- Not restricted for air transport – Complies with IATA/ICAO Special Provision A67
- Not restricted for surface transport – classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189
- Not restricted for water transport – classified as non-hazardous material per IMDG Amendment 27.
- Battery design allows for 48VDC configuration in a standard 23" relay rack.
- Minimizes battery interconnection cost and resistance with supplied copper connectors.
- CLEI – PWHYAA8EAA
- CPR – 203659

12 Volts – 151 Ampere Hour Capacity @ 8 Hour Rate

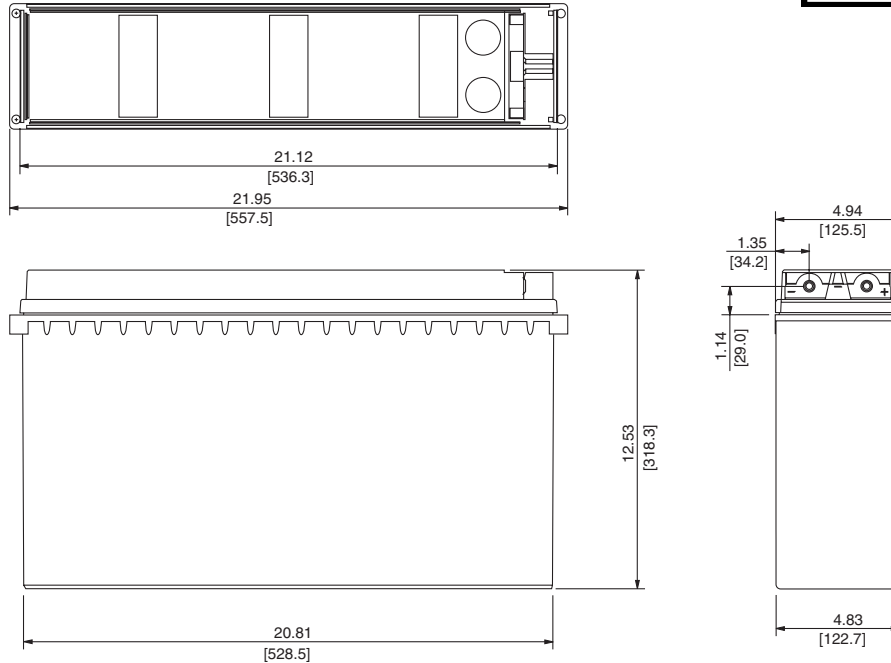
Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)

Discharge in Hours	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	72.00	100.00
Amp-Hr Capacity	100	122.4	129.6	135.6	140.5	144.6	147.7	151.2	155	158.4	168	170	172	174

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TEL12-150F



TEL12-150F – Specifications

* All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	131 lbs. 60 kg	Absorbed H ₂ SO ₄ SG = 1.300	525 Amps	4610 Amps @ 0.1 sec.	0.0026 Ohms

Capacity	151 Ah @ 8 hour rate to 1.75 volts per cell @ 77°F (25°C) 149.4 Ah @ 10 hour rate to 1.80 volts per cell @ 20°C (68°F)
Operating Temperature Range	Discharge; -40°F (-40°C) to +160°F (71°C), Charge; -10°F (-23°C) to +140°F (60°C) (with temperature compensation)
Nominal Operating Temperature Range	+74°F (23°C) to +80°F (27°C)
Floating Charging Voltage	13.5 to 13.8 VDC/unit Average @ 77°F (25°C)
Recommended Maximum Charging Current Limit	C/5 amperes (33.6 amps @ 100% depth of discharge) @ 20 hour rate.
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 4% P-P Maximum current allowed = 8.4 amperes RMS (C/20)
Self Discharge	Dynasty Telecom batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Accessories	Inter unit connectors, racks and cabinet systems are available.
Terminal	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt.
Terminal Hardware Initial Torque	110 in.-lbs. (12.4 N-m).

Constant Current Discharge Ratings – Amperes @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in hours)													
	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00	24.00	72.00	100.00
1.75	100.00	61.20	43.20	33.90	28.10	24.10	21.10	18.90	15.50	13.20	8.40	7.06	2.39	1.74
1.80	96.50	60.10	42.80	33.70	27.90	23.90	21.00	18.70	15.40	13.10	8.30	6.98	2.37	1.72
1.85	92.80	58.90	42.20	33.30	27.60	23.70	20.80	18.60	15.30	13.00	8.20	6.94	2.36	1.71
1.90	85.30	55.70	40.70	32.40	27.00	23.20	20.40	18.20	15.10	12.80	8.10	6.79	2.31	1.67

Note: Batteries to be mounted with 0.3" (0.75 cm) spacing minimum and free air ventilation. Refer to battery installation and operating instructions for additional information. Specifications subject to change without notification.