

# LONG DURATION SERIES



## TEL12-80/SLC VALVE REGULATED LEAD ACID BATTERY FOR COMMUNICATIONS STANDBY POWER APPLICATIONS

### FEATURES

- Flame-arresting one-way pressure-relief vent for safety and long life.
- 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.
- Complies with UL1778, 924, 1989 and 94 V-0.
- UL-recognized component.
- Thick positive plate design for maximum service float life – 10 year design life.
- Can be used in any orientation. Upright, side or end mounting recommended.
- Low-profile terminals with threaded copper alloy inserts for reduced height, reduced maintenance and increased safety.
- 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.
- Includes 22 inch AWG #10 insulated wire harness and Anderson connector.

### 12 Volts – 79 Ampere Hour Capacity @ 8 Hour Rate

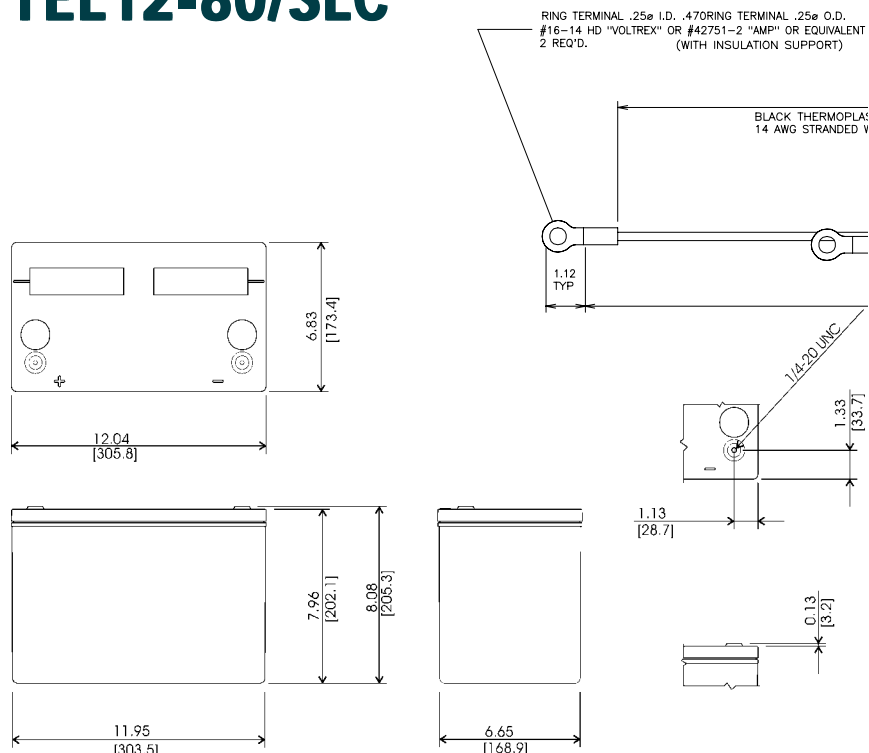
Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)

Discharge in Hours	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	62.0	67.5	71.2	74.0	76.2	77.7	79.2	81.4	83.6	88.0	88.3	90.7	92.0

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# TEL12-80/SLC



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

## TEL12-80/SLC – Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	68 lbs. 31 kg	Absorbed H <sub>2</sub> SO <sub>4</sub> SG = 1.300	30 Amps*	3300 Amps @ 0.1 sec.	0.0040 Ohms

<b>Capacity</b>	79 Ah @ 8 hour rate to 1.75 volts per cell @ 77° F (25° C) 77.5 Ah @ 10 hour rate to 1.80 volts per cell @ 20° C (68° F)
<b>Operating Temperature Range</b>	<b>Discharge;</b> -40° F (-40° C) to +160° F (71° C), <b>Charge;</b> -10° F (-23° C) to +140° F (60° C) <small>(with temperature compensation)</small>
<b>Nominal Operating Temperature Range</b>	+74° F (23° C) to +80° F (27° C)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average @ 77° F (25° C)
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes (14.8 amps @ 100% depth of discharge)
<b>Maximum AC Ripple (Charger)</b>	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 = 4.4 amperes RMS (C/20)
<b>Self Discharge</b>	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.
<b>Accessories</b>	Inter unit connectors, racks and cabinet systems are available.
<b>Terminal</b>	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt.
<b>Terminal Hardware Initial Torque</b>	110 in.-lbs. (12.4 N-m).

\* Discharge rate limited to 30 amps by wire harness.

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

End Point Volts/Cell	Operating Time to End Point Voltage (in hours)												
	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	31.0	22.5	17.8	14.8	12.7	11.1	9.90	8.14	6.97	4.40	3.68	1.26	0.92
1.80	30.3	22.0	17.3	14.4	12.3	10.8	9.60	7.98	6.75	4.30	3.61	1.25	0.90
1.85	28.2	20.5	16.2	13.5	11.6	10.2	9.10	7.60	6.50	4.11	3.45	1.20	0.87
1.90	25.4	18.5	14.7	12.3	10.6	9.30	8.40	6.95	5.93	3.83	3.24	1.11	0.81

**Note:** Batteries to be mounted with 0.5 in. spacing minimum and free air ventilation. Above ratings do not include cable harness. Specifications subject to change without notification.