



LONG DURATION SERIES

TEL SERIES

Valve Regulated Lead Acid (VRLA) Battery Series
Designed for Telecom Power Applications



APPLICATIONS

- Customer Premise
- Broadband
- Wireless
- PBX
- Repeaters
- Fixed Wireline

FEATURES & BENEFITS

- Telecordia certified life exceeding 10 years.
- Telecordia tested and qualified to meet all SR-4228 requirements.
- 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.
- Complies with UL1778, 924, 1989 and 94 V-0.
- UL-recognized component.
- 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.
- Front Access threaded copper alloy inserts on TEL12-105FS.
- Multicell design for ease of installation and maintenance.
- Not restricted for air transport - Classified as non-hazardous material, complies with IATA/ICAO Special Provision A67.
- Not restricted for surface transport - Classified as non-hazardous material, complies with DOT-CFR Title 49 parts 171-189.
- Not restricted for water transport - Classified as non-hazardous material, complies with IMDG exception 238.

TECHNICAL DATA

| Model | #Cells/Voltage | Ampere Hour Capacity @ 77°F (25°C) | | | | | | | | | | | | | | Weight lbs | Weight kg |
|-----------------|--------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------|--------------|
| | | Operating Time (in hours) to 1.75 Volts Per Cell | | | | | | | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 20 | 24 | 72 | 100 | | |
| TEL12-30 (*SLC) | 6 Cells / 12 Volts | 22.1 | 25.9 | 27.6 | 28.6 | 29.1 | 29.5 | 29.9 | 30.4 | 31.1 | 31.8 | 33.0 | 33.2 | 33.8 | 34.0 | 27.3 | 12.4 |
| TEL12-45 (*SLC) | 6 Cells / 12 Volts | 31.5 | 37.0 | 39.6 | 41.0 | 42.3 | 43.4 | 44.4 | 45.5 | 46.9 | 47.8 | 50.0 | 50.4 | 51.8 | 52.0 | 40.6 | 18.4 |
| TEL12-70 | 6 Cells / 12 Volts | 46.8 | 55.0 | 59.5 | 62.2 | 64.3 | 66.0 | 67.5 | 69.1 | 71.0 | 72.1 | 75.0 | 75.6 | 77.8 | 78.0 | 55.8 | 25.3 |
| TEL12-80 (*SLC) | 6 Cells / 12 Volts | 53.8 | 63.0 | 67.8 | 70.0 | 72.5 | 75.0 | 77.0 | 79.0 | 81.4 | 83.0 | 88.0 | 88.3 | 91.0 | 92.0 | 66.6 | 30.2 |
| TEL12-90 | 6 Cells / 12 Volts | 60.0 | 69.6 | 75.0 | 79.0 | 81.0 | 83.7 | 85.8 | 87.6 | 90.8 | 93.5 | 100.0 | 101.0 | 103.5 | 104.0 | 74.5 | 33.8 |
| TEL12-105FS** | 6 Cells / 12 Volts | 66.3 | 77.6 | 84.6 | 89.2 | 92.5 | 95.4 | 98.0 | 100.0 | 102.0 | 104.2 | 109.0 | 110.4 | 118.0 | 119.0 | 84.9 | 38.5 |
| TEL12-125 | 6 Cells / 12 Volts | 87.5 | 98.0 | 108.0 | 113.6 | 118.0 | 121.2 | 123.5 | 126.0 | 128.0 | 130.0 | 134.8 | 136.3 | 144.7 | 146.0 | 102.3 | 46.4 |
| TEL6-180 | 3 Cells / 6 Volts | 120.0 | 137.0 | 150.0 | 156.8 | 162.0 | 168.0 | 172.2 | 175.5 | 181.0 | 186.5 | 200.0 | 201.6 | 207.4 | 208.0 | 74.5 | 33.8 |

* (SLC) battery includes cable assembly

** TEL12-105 FS replaces TEL12-105 F. The TEL 12-105 FS is 0.56 inches (14.33 mm) shorter than the TEL12-105 F.

SPECIFICATIONS

| | |
|--|---|
| Operating Temperature Range with Temperature compensation | Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C) |
| Nominal Operation Temperature Range | +74°F (23°C) to +80°F (27°C) |
| Recommended Maximum Charging Current Limit | C/5 amperes @ 20 Hr rate @ 77°F (25°C) |
| Float Charging Voltage | 13.5 to 13.8 average per 12V unit (6.75 to 6.90 per 6V unit) @ 77°F (25°C) |
| Maximum AC Ripple (Charger) | AC Ripple Voltage - 0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. AC Ripple Current - Max current allowed = C/20 AMPS RMS (5 AMPS RMS Per 100Ah) |
| Self Discharge | Battery can be stored up to 6 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D bulletin 41-7272, Self-Discharge and Inventory Control for details. |
| Equalize charge and cycle service voltage | 14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C); 7.20 to 7.40 VDC per 6V unit |
| Terminal Inserted | Threaded copper alloy insert terminal to accept: 10-32 UNF 3/8 inch long screws for: TEL12-30, TEL12-30SLC, TEL12-45 & TEL12-45SLC) 1/4-20 UNC 3/4 inch long screws for: TEL12-70, TEL12-80, TEL12-80SLC, TEL12-90, TEL12-105FS, TEL12-125 & TEL6-180. |
| Inserted Copper Alloy Terminal Hardware Initial Torque | 30 in.-lbs. (3.4 N-m) for 10-32 hardware 110 in.-lbs. (12.4 N-m) for 1/4 -20 hardware |
| Inter-unit Connector | Included with the TEL12-105FS |
| Terminal Protectors | UL94 V0 Terminal protectors available |

DIMENSIONS

| | | | | | | | Battery Termination | | | |
|-----------------|----------------|---------------|--------------|--------------|---------------|---------------|---------------------|---------------|-----------|---------------|
| | | | | | | | TEL12-30(SLC) | TEL12-45(SLC) | TEL12-70 | TEL12-80(SLC) |
| | | | | | | | | | | |
| | | | | | | | TEL12-90 | TEL12-105FS | TEL12-125 | TEL6-180 |
| | | | | | | | | | | |
| Model | Inches (mm) | Inches (mm) | Inches (mm) | Inches (mm) | Inches (mm) | Inches (mm) | | | | |
| TEL12-30 (*SLC) | 7.77 (197.4) | 7.54 (191.4) | 5.19 (131.9) | 5.02 (127.6) | 6.52 (165.7) | 6.80 (172.7) | | | | |
| TEL12-45 (*SLC) | 8.99 (228.3) | 8.86 (225.1) | 5.48 (139.2) | 5.31 (134.8) | 7.89 (200.3) | 8.07 (205.1) | | | | |
| TEL12-70 | 10.26 (260.5) | 10.17 (258.4) | 6.83 (173.4) | 6.65 (168.9) | 7.89 (200.3) | 8.01 (203.5) | | | | |
| TEL12-80 (*SLC) | 12.51 (317.8) | 11.95 (303.5) | 6.83 (173.4) | 6.65 (168.9) | 7.94 (201.6) | 8.06 (204.8) | | | | |
| TEL12-90 | 13.42 (340.9) | 12.75 (323.7) | 6.80 (172.7) | 6.54 (166.0) | 8.40 (213.2) | 8.52 (216.4) | | | | |
| TEL12-105FS** | 21.95 (557.50) | 20.81 (528.5) | 4.94 (125.5) | 4.83 (122.7) | 7.29 (185.2) | 9.0 (228.6) | | | | |
| TEL12-125 | 13.57 (344.7) | 12.74 (323.6) | 6.80 (172.7) | 6.63 (168.4) | 10.81 (274.5) | 10.93 (277.7) | | | | |
| TEL6-180 | 12.63 (320.8) | 12.51 (317.8) | 6.97 (177.0) | 6.83 (173.4) | 8.82 (224.0) | 8.94 (227.2) | | | | |

Note: All dimensions are for reference only. Lug & hardware dimensions not included. Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Contact a C&D Representative for additional dimension information. (*SLC) battery includes cable assembly. ** TEL12-105FS is a Front Access Battery and includes rope handles.

TEL12-70 SPECIFICATIONS

| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|---|--|---------------------------|---------------------------|-----------------------------------|
| 69 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 67.2 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 800 Amperes | 3100 Amperes @ 0.1 Second | 0.0050 |

TEL12-70 RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|--------|
| | 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 | 46.80 | 27.50 | 19.83 | 15.55 | 12.86 | 11.00 | 9.64 | 8.64 | 7.10 | 6.01 | 3.75 | 3.15 | 1.08 | 0.78 |
| 1.80 | 44.50 | 26.80 | 19.20 | 14.95 | 12.30 | 10.58 | 9.29 | 8.38 | 6.92 | 5.86 | 3.66 | 3.08 | 1.06 | 0.77 |
| 1.85 | 41.80 | 25.50 | 18.30 | 14.25 | 11.90 | 10.20 | 9.00 | 8.05 | 6.60 | 5.59 | 3.53 | 2.98 | 1.03 | 0.75 |
| 1.90 | 39.50 | 24.20 | 17.30 | 13.63 | 11.30 | 9.70 | 8.57 | 7.73 | 6.40 | 5.42 | 3.43 | 2.88 | 0.98 | 0.71 |

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

TEL12-80 (*SLC) SPECIFICATIONS

* TEL12-80 SLC cable connectors ARE rated for ONLY 30 amps discharge

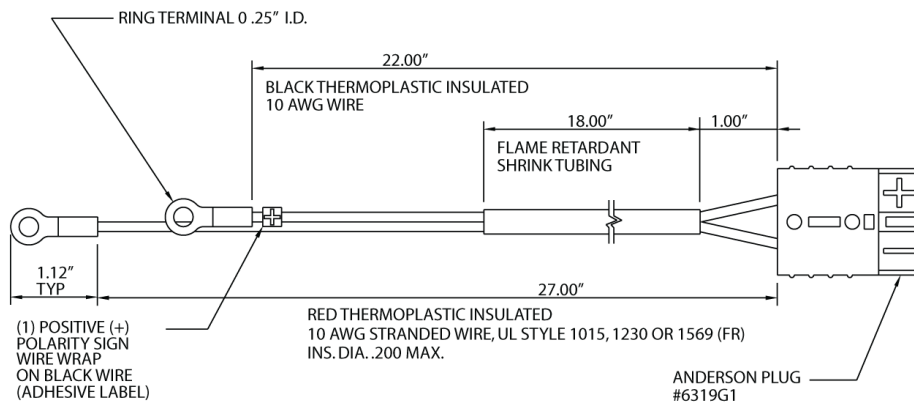
| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|---|--|----------------------------|---------------------------|-----------------------------------|
| 79 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 77.5 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 800 Amperes (*SLC-30 Amps) | 3300 Amperes @ 0.1 Second | 0.0040 |

TEL12-80 & TEL12-80SLC RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|--------|
| | 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 | 53.80 | 31.50 | 22.60 | 17.50 | 14.50 | 12.50 | 11.00 | 9.88 | 8.14 | 6.92 | 4.40 | 3.68 | 1.26 | 0.92 |
| 1.80 | 51.10 | 29.80 | 21.60 | 16.95 | 14.00 | 12.15 | 10.69 | 9.56 | 7.85 | 6.70 | 4.28 | 3.59 | 1.24 | 0.90 |
| 1.85 | 47.00 | 27.50 | 20.30 | 16.13 | 13.40 | 11.58 | 10.26 | 9.13 | 7.50 | 6.35 | 4.11 | 3.45 | 1.19 | 0.87 |
| 1.90 | 43.00 | 25.40 | 18.50 | 15.00 | 12.50 | 10.80 | 9.50 | 8.50 | 6.95 | 5.93 | 3.88 | 3.29 | 1.14 | 0.83 |

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

TEL12-80SLC CABLE



PART NO. 150-15942 (32640)

TEL12-90 SPECIFICATIONS

| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|---|--|---------------------------|---------------------------|-----------------------------------|
| 88 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 85.5 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 800 Amperes | 3600 Amperes @ 0.1 Second | 0.0035 |

TEL12-90 RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 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 | 60.00 | 34.80 | 25.00 | 19.75 | 16.20 | 13.95 | 12.26 | 10.95 | 9.08 | 7.79 | 5.00 | 4.21 | 1.44 | 1.04 |
| 1.80 | 57.00 | 33.00 | 24.00 | 19.00 | 15.60 | 13.42 | 11.86 | 10.56 | 8.80 | 7.58 | 4.89 | 4.13 | 1.42 | 1.03 |
| 1.85 | 53.30 | 31.40 | 22.80 | 18.00 | 15.00 | 12.77 | 11.30 | 10.10 | 8.44 | 7.23 | 4.67 | 3.96 | 1.37 | 0.99 |
| 1.90 | 49.50 | 29.85 | 21.67 | 17.13 | 14.20 | 12.13 | 10.64 | 9.50 | 7.90 | 6.73 | 4.34 | 3.69 | 1.26 | 0.92 |

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

TEL12-105FS SPECIFICATIONS

| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|--|--|---------------------------|---------------------------|-----------------------------------|
| 100 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 98.1 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 800 Amperes | 4000 Amperes @ 0.1 Second | 0.0034 |

TEL12-105FS RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 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 | 66.30 | 38.80 | 28.20 | 22.30 | 18.50 | 15.90 | 14.00 | 12.48 | 10.20 | 8.68 | 5.45 | 4.60 | 1.64 | 1.19 |
| 1.80 | 64.70 | 38.10 | 27.80 | 21.90 | 18.20 | 15.65 | 13.77 | 12.30 | 10.00 | 8.54 | 5.36 | 4.53 | 1.60 | 1.16 |
| 1.85 | 61.30 | 36.60 | 26.80 | 21.20 | 17.60 | 15.20 | 13.30 | 11.88 | 9.75 | 8.26 | 5.18 | 4.37 | 1.54 | 1.12 |
| 1.90 | 55.10 | 33.30 | 24.50 | 19.40 | 16.20 | 13.90 | 12.20 | 10.91 | 9.00 | 7.67 | 4.80 | 4.04 | 1.42 | 1.03 |

Note: Batteries to be mounted with 0.3 in. (7.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

TEL12-125 SPECIFICATIONS

| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|--|---|---------------------------|---------------------------|-----------------------------------|
| 127 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 123 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 800 Amperes | 5000 Amperes @ 0.1 Second | 0.0023 |

TEL12-125 RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 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 | 87.50 | 49.00 | 36.00 | 28.40 | 23.60 | 20.20 | 17.64 | 15.75 | 12.80 | 10.83 | 6.74 | 5.68 | 2.01 | 1.46 |
| 1.80 | 82.50 | 47.25 | 34.67 | 27.50 | 22.70 | 19.50 | 17.00 | 15.19 | 12.40 | 10.58 | 6.60 | 5.58 | 1.97 | 1.43 |
| 1.85 | 77.00 | 44.00 | 32.50 | 26.25 | 21.80 | 18.67 | 16.29 | 14.50 | 11.90 | 10.08 | 6.39 | 5.40 | 1.92 | 1.40 |
| 1.90 | 71.00 | 41.50 | 30.67 | 24.30 | 20.20 | 17.20 | 15.10 | 13.40 | 11.03 | 9.42 | 6.00 | 5.08 | 1.82 | 1.32 |

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

TEL12-30 (*SLC) SPECIFICATIONS

* TEL12-30 SLC CABLE CONNECTORS ARE RATED FOR ONLY 11 AMPS DISCHARGE

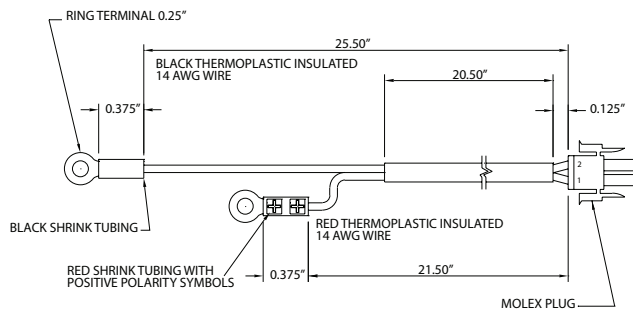
| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|---|--|----------------------------|---------------------------|-----------------------------------|
| 30.5 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 29.1 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 500 Amperes (*SLC-11 Amps) | 2150 Amperes @ 0.1 Second | 0.0100 |

TEL12-30 & TEL12-30SLC RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|------|------|------|------|------|------|-------|-------|-------|-------|-------|--------|
| | 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 | 22.10 | 12.95 | 9.20 | 7.15 | 5.82 | 4.92 | 4.27 | 3.80 | 3.11 | 2.65 | 1.65 | 1.38 | 0.47 | 0.34 |
| 1.80 | 21.00 | 12.40 | 8.80 | 6.90 | 5.62 | 4.74 | 4.12 | 3.68 | 3.02 | 2.58 | 1.61 | 1.35 | 0.46 | 0.33 |
| 1.85 | 19.60 | 11.60 | 8.40 | 6.63 | 5.40 | 4.56 | 3.96 | 3.53 | 2.92 | 2.50 | 1.55 | 1.30 | 0.44 | 0.32 |
| 1.90 | 18.50 | 11.05 | 8.03 | 6.35 | 5.22 | 4.41 | 3.84 | 3.41 | 2.82 | 2.41 | 1.50 | 1.25 | 0.42 | 0.31 |

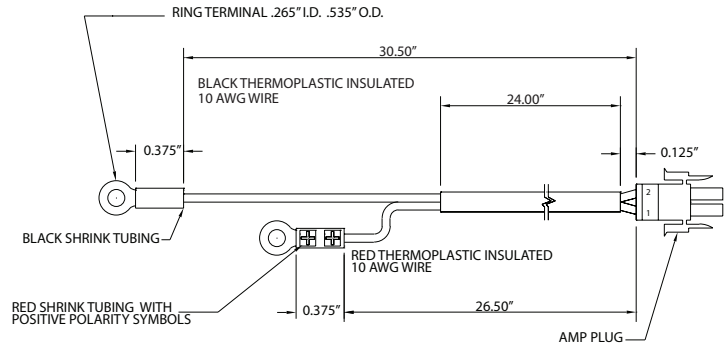
Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

TEL12-30SLC Cable



PART NO. 150-15884 (32564) BLACK SHRINK TUBING
150-15959 (32647) GREY SHRINK TUBING

TEL12-45SLC CABLE



PART NO. 150-15942 (32640)

TEL12-45 (*SLC) SPECIFICATIONS

* TEL12-45 SLC CABLE CONNECTORS ARE RATED FOR ONLY 11 AMPS DISCHARGE

| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|---|--|----------------------------|---------------------------|-----------------------------------|
| 46.0 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 44.4 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 600 Amperes (*SLC-11 Amps) | 2500 Amperes @ 0.1 Second | 0.0060 |

TEL12-45 & TEL12-45SLC RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|--------|
| | 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 | 31.50 | 18.50 | 13.20 | 10.25 | 8.45 | 7.23 | 6.34 | 5.69 | 4.69 | 3.98 | 2.50 | 2.10 | 0.72 | 0.52 |
| 1.80 | 30.00 | 18.00 | 13.00 | 10.00 | 8.23 | 7.08 | 6.19 | 5.53 | 4.57 | 3.88 | 2.45 | 2.06 | 0.71 | 0.51 |
| 1.85 | 28.00 | 17.40 | 12.70 | 9.88 | 8.05 | 6.90 | 6.00 | 5.35 | 4.43 | 3.75 | 2.33 | 1.97 | 0.69 | 0.50 |
| 1.90 | 26.20 | 16.50 | 12.17 | 9.50 | 7.83 | 6.70 | 5.86 | 5.20 | 4.27 | 3.60 | 2.23 | 1.88 | 0.66 | 0.49 |

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

TEL6-180 SPECIFICATIONS

| Battery Capacity | Battery Capacity | Maximum Discharge Current | Short Circuit Current | Ohms Impedance 60 Hz (Ω) |
|--|---|---------------------------|---------------------------|-----------------------------------|
| 176 Ah @ 8 hour rate to 1.75 v/c @ 77°F (25°C) | IEC Rating: 171 Ah @ 10 hour rate to 1.80 v/c @ 68°F (20°C) | 800 Amperes | 4350 Amperes @ 0.1 Second | 0.0012 |

TEL6-180 RATINGS

| End Point Volts/Cell | Constant Current Discharge Ratings - Amperes @ 77°F (25°C) | | | | | | | | | | | | | |
|----------------------|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | 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 | 120.00 | 68.50 | 50.00 | 39.20 | 32.40 | 28.00 | 24.60 | 21.94 | 18.10 | 15.54 | 10.00 | 8.42 | 2.88 | 2.08 |
| 1.80 | 113.00 | 66.00 | 48.00 | 38.00 | 31.36 | 27.00 | 23.70 | 21.20 | 17.60 | 15.08 | 9.70 | 8.17 | 2.80 | 2.03 |
| 1.85 | 106.00 | 62.00 | 45.50 | 36.00 | 30.00 | 25.80 | 22.70 | 20.30 | 16.90 | 14.50 | 9.30 | 7.83 | 2.73 | 1.98 |
| 1.90 | 94.00 | 57.25 | 42.00 | 33.50 | 27.90 | 24.00 | 21.10 | 19.00 | 15.80 | 13.70 | 8.90 | 7.56 | 2.65 | 1.92 |

Note: Batteries to be mounted with 0.5 in. (12.5 mm) spacing minimum allowing free air ventilation. Specifications subject to change without notification. The above ratings do not include connector voltage drops.

| Part Number | CLEI Number | CPR Number |
|---------------|-------------|------------|
| TEL 12-30 | PWCYALS1AA | 560308 |
| TEL 12-30/SLC | SLPQ0DU8AA | 983219 |
| TEL 12-30/CCD | PBMB800FRA | 211778 |
| TEL 12-45 | PWCYALU1AA | 560310 |
| TEL 12-45/SLC | PWCYALV1AA | 560311 |
| TEL 12-70 | PWCYALW1AA | 560312 |
| TEL 12-80 | PWCYAMM1AA | 127524 |
| TEL 12-80/SLC | PWCYAMN1AA | 127525 |
| TEL 12-90 | PWCYALX1AA | 560313 |
| TEL 12-105FS | PWCYAUFBAA | 136703 |
| TEL 12-125 | PWCYALY1AA | 560314 |
| TEL 6-180 | PWCYALZ1AA | 560315 |

TECHNOLOGIES, INC.

1400 Union Meeting Road
P.O. Box 3053 • Blue Bell, PA 19422-0858
(215) 619-2700 • Fax (215) 619-7899 • (800) 543-8630
customersvc@cdtechno.com
www.cdtechno.com

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