



# LONG DURATION SERIES

## TEL 12-170F VALVE REGULATED LEAD ACID FRONT ACCESS BATTERY

DESIGNED FOR TELECOM APPLICATIONS



### APPLICATIONS

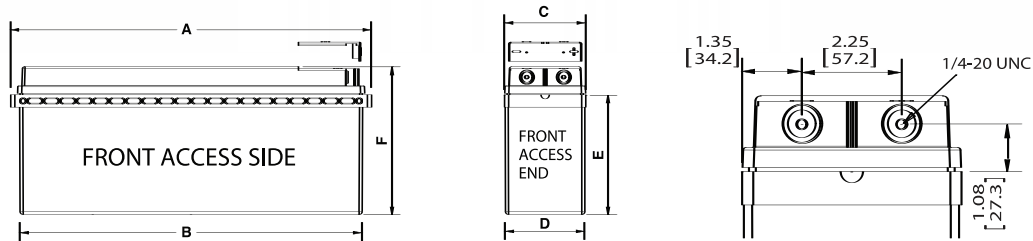
- Customer Premise
- Broadband
- Wireless
- PBX
- Microwave Repeater
- Fiber Optic Regen Sites
- Fixed Wireless

### FEATURES & BENEFITS

- Telcordia certified life exceeded 10 years.
- Telcordia 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
- Telcordia CPR Number: 210694
- Telcordia CLEI Number: PWHYAMFEAA
- Can be used in any position - Upright, side or end mounting recommended.
- Threaded copper alloy inserts.
- 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, complies with IMDG exception 238

### 12 VOLTS - 170 AMPERE HOUR CAPACITY @ 8 HOUR RATE

Discharge in hrs.	Ampere Hour Capacity to 1.75 Volts per Cell @ 77°F (25°C)										
	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	10.00	12.00	20.00
Amp-Hr Capacity	108.0	120.0	132.0	141.6	150.5	158.4	165.2	170.4	176.0	178.8	186.0



Model	A		B		C		D		E		F	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
TEL12-170F	21.95	557.50	20.81	528.5	4.94	125.5	4.83	122.7	10.78	273.8	12.53	318.3

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

## SPECIFICATIONS

Cells Per Unit	Voltage Per Unit	Capacity 8 Hour Rate	Weight	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60Hz (Ω)
6	12 V Monoblock	170 Amp-Hrs	127.9 lbs 58 kg	400 Amps	4190 Amps @ 0.1 sec	0.0028 Ohms

<b>Capacity</b>	170.0 Ah @ 8 hour rate to 1.75 volts per cell @ 77°F (25°C) 186.0 Ah @ 20 hour rate to 1.75 volts per cell @ 77°F (25°C) 168.2 Ah @ 10 hour rate to 1.80 volts per cell @ 20°F (68°C)
<b>Operating Temperature Range with temperature compensation</b>	Discharge: -40°F (-40°C) to +160°F (71°C) Charge: -10°F (-23°C) to +140°F (60°C)
<b>Nominal Operating Temperature Range</b>	+74°F (23°C) to +80°F (27°C)
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes @ 20 hour rate (37.2 amps @ 100% depth of discharge)
<b>Float Charging Voltage</b>	13.5 to 13.8 VDC/unit Average @77°F (25°C)
<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 = 9.3 amperes RMS (C/20)
<b>Self Discharge</b>	Telecom batteries may be stored for up to 6 months at 77°F (25°C) and then a refreshing charge is required. For higher temperatures the time interval will be shorter.
<b>Accessories</b>	Inter unit connectors provided (PK04060T), racks systems are available.
<b>Terminal</b>	Threaded copper alloy insert terminal to accept 1/4-20 UNC 3/4 inch long screws (provided).
<b>Terminal Hardware Torque</b>	110 in. - lbs. (12.4 Nm)

## CONSTANT CURRENT DISCHARGE RATINGS - AMPERES @77°F (25°C)

End Point Volts/Cells	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
1.75	108.0	60.0	44.0	35.4	30.1	26.4	23.6	21.3	17.6	14.9	9.3
1.80	102.0	57.0	41.8	34.0	29.1	25.6	22.8	20.6	17.1	14.5	9.0
1.85	92.5	52.5	39.2	32.3	27.9	24.4	21.8	19.7	16.3	13.8	8.7
1.90	72.0	43.2	33.9	28.5	25.0	22.2	20.0	18.0	14.9	12.6	7.9

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification. Above ratings do not include interunit connector drops.