POWER
Power for a World of Applications

TELECOM Series

FT-12175

FRONT ACCESS

VALVE REGULATED LEAD ACID BATTERY (V.R.L.A.)
WITH ABSORBED GLASS MAT CONSTRUCTION

HIGHEST POWER DENSITY AVAILABLE
48 VOLT DC – 23" RACK

LIFE ENHANCING CATALYST
AVAILABLE IN ALL CELLS

ISO CERTIFIED SYSTEM

LEAD RETURN RECYCLE

The FT series of batteries are ideal for installations where space is at a premium. The front access design permits rapid installation and reduced maintenance time.

Features and Benefits

- Ten year design life in telecom float service.
- A recognized component of U.L.
- Valve regulated lead acid battery (VRLA).
- Absorbed glass mat technology (AGM) with gas recombination greater than 99%.
- Operates at a low internal pressure.
- Never needs watering; minimal maintenance.
- Shock absorbent thick wall construction.
- Advanced lead tin calcium alloy, reduces grid corrosion and promotes long battery life.
- Flame-retardant ABS plastic case and cover compliant with U.L.1778 V-0 with an Oxygen Limiting Index of greater than 28%.
- Cold forged nonporous terminal bushings; eliminate post leakage.
- Thermally welded case to cover bond; eliminates both acid and electrical leaks.
- Over-sized, through the partition inter-cell welds for minimal power loss.
- Flame arresting, low pressure safety release venting system for individual cells, recognized per U.L. 924.
- Measured high vacuum acid fill, reduces electrical variability between cells.
- Terminal and bussbar covers included.
- Carrying handles.

Specifications

Cells / Volts	6 cells / 12 volts
Terminal type	Threaded copper insert, 1/4"
Capacity @ 77°F (25°C)	175 AH (8 hrs) to 1.75 V.P.C.
Operating temperature range:	-40°C/-40°F to 60°C/140°F
Charging voltage / current:	2.26 ± .01 volts per cell, constant voltage at a maximum current of C/4 amps.
Temperature compensation: Apply for temperature range of 0°C/32°F to 40°C/104°F.	Subtract 3mV/°C/cell or 1.7 mV/°F/cell, above 25°C/77°F. Add 3 mV/°C/cell or 1.7 mV/°F/cell, below 25°C/77°F.
Storage time from a fully charged condition:	6 months at 25°C/77°F. For each 9°C/15°F rise, reduce the storage time by half.
Self discharge rate	Less than 2% per month @ 25°C/77°F
AC ripple from charging source	1.5% peak to peak of float
Overall dimensions (inches, mm)	21.96" L x 4.86" W x 12.6" H 558mm L x 123mm W x 320mm H
Weight	141 lbs / 64.1 kg

Options

- Patented battery catalyst per cell.
- Custom wire harnesses.
- High temperature retaining sleeves.

Standards and Compliances

- UL Compliant
- NEBS Compliant
- EUROBAT, 896-2
  10 year plus classification
- BS EN60896-2 1996.
- Tested in accordance with
  - BS6290 PART 4, 1987
  - Bellcore, TR-NWT-000766
  - ANSI, TI: 330

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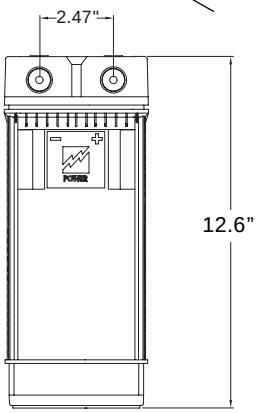
TELECOM *Series*

FT-12175

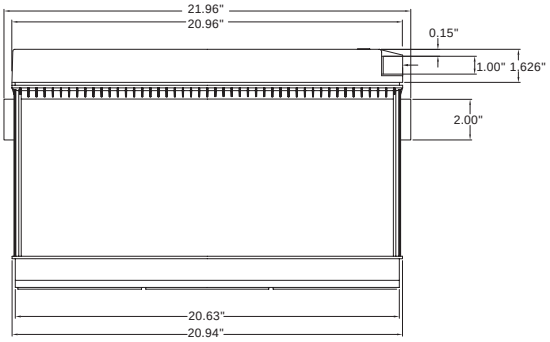
23 "
(584 mm)



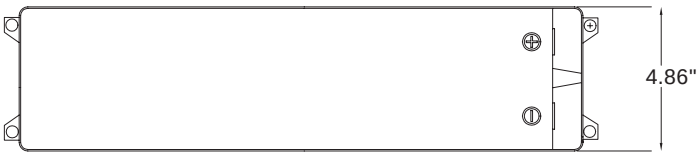
Front view

Advantages of the Catalyst

- Reduces the float current on the positive plate, lowering the corrosion rate, lowering the water loss
- Keeps the negative plate charged
- Converts the released hydrogen gas back to water, preventing water loss
- The catalyst material is in a cavity in the valve assembly, not in contact with the plates.



Side view



Top view

Discharge Rates in Constant Power @ 77°F (25°C) (watts per battery)

End Volts per cell	Discharge Time										
	Minutes						Hours				
	5	10	15	30	45	60	2	3	4	5	8
1.75	4842	3609	3050	1888	1596	1422	845	561	443	369	253
1.67	5281	3880	3194	1931	1603	1436					

Hourly Discharge Rates in Amperes @ 77°F (25°C)

End Volts per cell	Discharge Hours												
	1	1.5	2	3	4	5	6	7	8	10	12	20	24
1.85	115.3	87.5	63.8	45.5	35.6	29.5	25.8	23	20.1	16.7	13.1	8.6	7.4
1.80	120.3	92.7	67.6	48.1	38.7	31.2	27.3	24.3	21.3	17.7	13.8	9.1	7.9
1.75	123.9	94.8	69.2	49.4	38.8	32	28	24.9	21.9	18.2	14.6	9.3	8.1

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