

**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**



**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; eliminates 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.

### Options

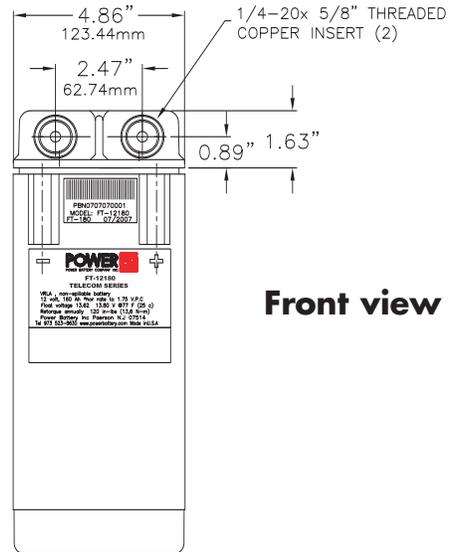
- Custom wire harnesses.
- High temperature retaining sleeves.

### Specifications

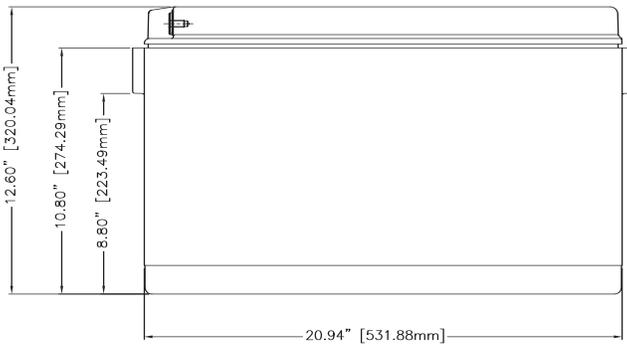
Cells / Volts	6 cells / 12 volts
Terminal type	Threaded copper insert, 1/4"
Capacity @ 77°F (25°C)	180 AH (8 hrs) to 1.75 V.P.C.
Charging voltage / current:	2.26 ± .01 volts per cell, constant voltage at a maximum current of C/4 amps.
Apply temperature compensation factors for temperature above or below 25°C/77°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	136 lbs / 61.6 kg

### Standards and Compliances

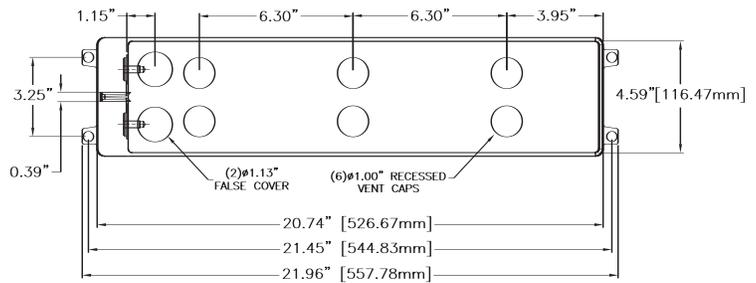
- UL Compliant
- NEBS Compliant
- EUROBAT, 896-2
- 10 year plus classification
- BS EN60896-2 1996.
- Tested in accordance with
  - BS6290 PART 4, 1987
  - Bellcore, TR-NWT-000766
  - ANSI, TI: 330



Front view



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	20	30	45	60	2	3	4	5	8
1.75	4982	3890	3167	2790	2290	1640	1305	850	580	480	396	275
1.67	5360	4320	3460	2955	2460	1810	1400					

**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	105.60	77.15	64.30	45.54	36.43	30.01	26.26	22.89	21.20	16.70	14.07	8.77	7.37
1.80	113.30	80.37	66.98	47.44	37.95	31.25	27.13	23.85	21.60	17.39	14.66	9.13	8.00
1.75	115.50	81.58	67.98	48.16	38.52	31.72	27.76	24.20	22.50	18.00	14.88	9.60	8.30

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