



# FT750-25

# FT SERIES

### CYCLING CAPACITY

20 Hour Rate     **64 Amp Hours**

### RESERVE CAPACITY

Reserve @25 AMPS     **120 Minutes**     Reserve @75 AMPS     **21 Minutes**

### ELECTRICAL SPECIFICATIONS

|                       |                  |
|-----------------------|------------------|
| Nominal Voltage       | <b>12 Volt</b>   |
| C100                  | <b>70 AH</b>     |
| C20                   | <b>64 AH</b>     |
| C5                    | <b>52 AH</b>     |
| Short Circuit Current | <b>2480 Amps</b> |
| CCA                   | <b>750 Amps</b>  |
| CA or MCA             | <b>900 Amps</b>  |
| PHCA                  | <b>1400 Amps</b> |
| Internal Resistance   | <b>5.0 mΩ</b>    |

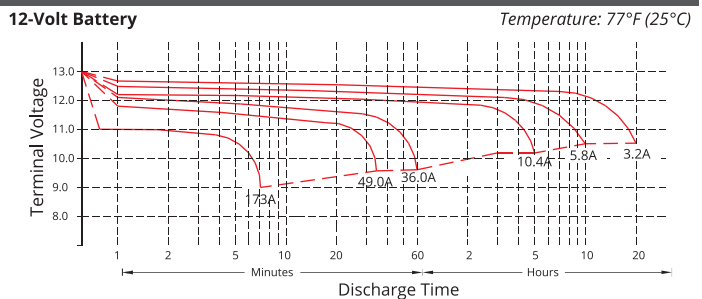
### MECHANICAL SPECIFICATIONS

|                      |  |                |
|----------------------|--|----------------|
| Group Size           | <b>25</b>                                      |                |
| Terminal Type        | <b>AP</b>                                      |                |
| Terminal Torque      | <b>See reverse side</b>                        |                |
| Height (w/ terminal) | <b>8.64"</b>                                   | <b>220 mm</b>  |
| Height (case only)   | <b>7.95"</b>                                   | <b>202 mm</b>  |
| Width                | <b>6.84"</b>                                   | <b>173 mm</b>  |
| Length               | <b>9.46"</b>                                   | <b>240 mm</b>  |
| Weight               | <b>49.2 lbs</b>                                | <b>22.3 kg</b> |
| Case Type            | <b>ABS Plastic - Flame Res. Rating UL94-HB</b> |                |

### DISCHARGE TABLE (Constant Current)

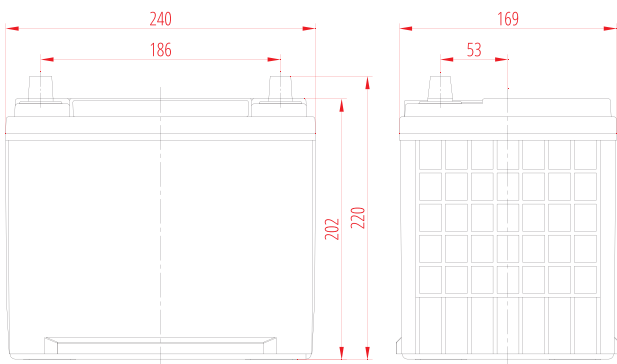
| Time | Amps | Rate    |
|------|------|---------|
| 20hr | 3.2  | 0.05 CA |
| 10hr | 5.8  | 0.10 CA |
| 8hr  | 7.0  | 0.13 CA |
| 5hr  | 10.4 | 0.25 CA |
| 3hr  | 16.5 | 0.33 CA |
| 2hr  | 21.5 | 0.50 CA |
| 1hr  | 36.0 | 1.00 CA |

### DISCHARGE PROFILE (Constant Current)

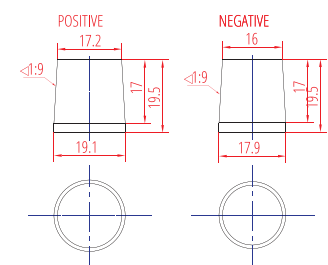


- All listed ratings are @ 100% SoC, T=77°F (25°C), 1.75VPC unless otherwise specified.  
 - Specifications listed are for estimation purposes only. Battery performance can vary depending on application. Battery design subject to change.

### BATTERY & TERMINAL DIMENSIONS (All units shown in mm)



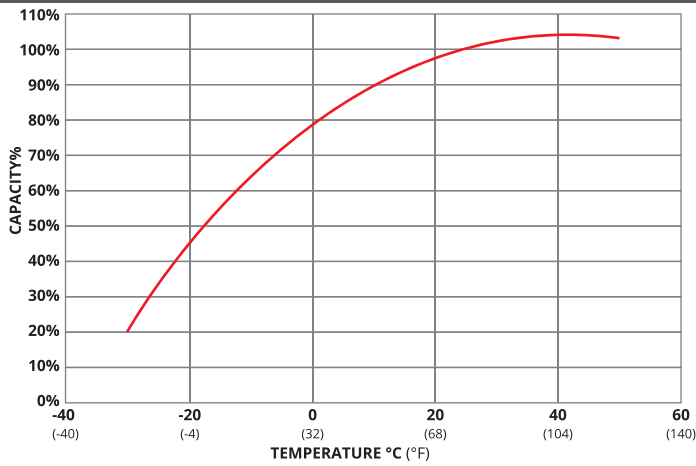
### Terminal: AP



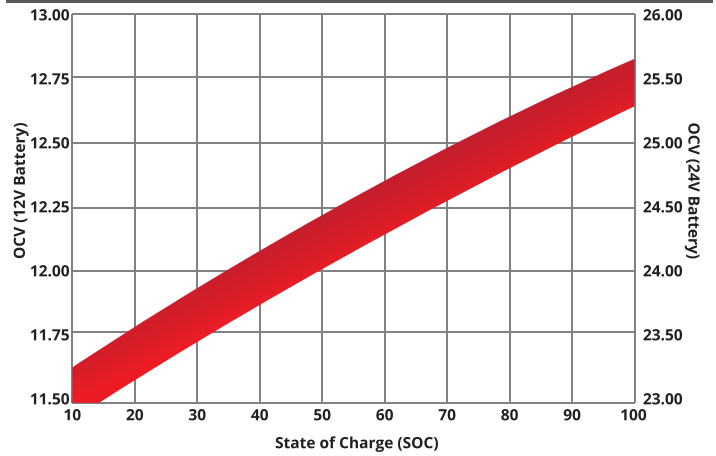
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## TEMPERATURE vs CAPACITY

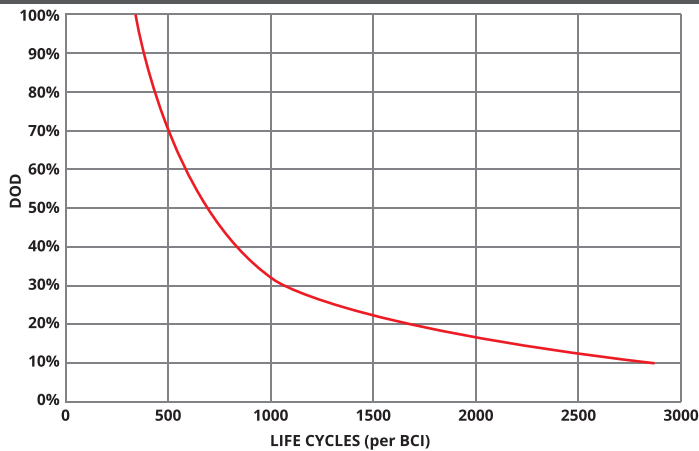


## STATE of CHARGE (SOC) vs OPEN CIRCUIT VOLTAGE (OCV)

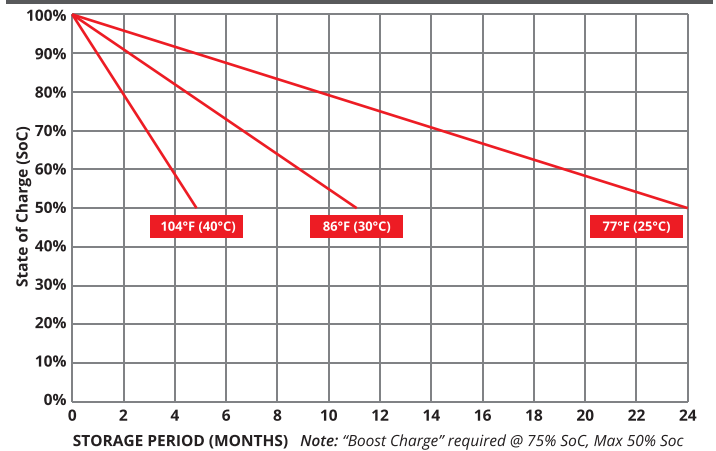


## CYCLE LIFE vs DEPTH of DISCHARGE (DOD)

\*(Based on BCI Testing @ 2-hr Rate)



## SELF DISCHARGE vs TIME/TEMPERATURE



## TEMPERATURE RANGE SPECIFICATIONS

| Condition      | Recommended   | Maximum        | Recommended   | Maximum       |
|----------------|---------------|----------------|---------------|---------------|
| Storage        | 5°F to 122°F  | -40°F to 160°F | -15°C to 50°C | -40°C to 71°C |
| Operation      | 5°F to 104°F  | -40°F to 160°F | -15°C to 40°C | -40°C to 71°C |
| Charge with TC | 5°F to 122°F  | -40°F to 160°F | -15°C to 50°C | -40°C to 71°C |
| Charge w/o TC  | 32°F to 104°F | 5°F to 122°F   | 0°C to 40°C   | -15°C to 50°C |

\*TC= Temperature Compensation

## CHARGE VOLTAGES

| Charge Stage | Battery Voltages |              |              |              |
|--------------|------------------|--------------|--------------|--------------|
|              | 12V              | 24V          | 36V          | 48V          |
| Bulk         | 14.4 - 14.7V     | 28.8 - 29.4V | 43.2 - 44.1V | 57.6 - 58.8V |
| Absorption   | 14.4 - 14.7V     | 28.8 - 29.4V | 43.2 - 44.1V | 57.6 - 58.8V |
| Float        | 13.6V            | 27.2V        | 40.8V        | 54.6V        |

TC Factor: (-2mV°F/cell) or (-4mV°C/cell)

## TERMINAL TORQUE SPECS

| Terminal Type                                     | ft-lbs     | in-lbs  | Nm         |
|---|------------|---------|------------|
| AP, DT (AP), M6, M6M (Stud), TP07 (AP), TP08 (AP) | 4.2 - 6.0  | 50-70   | 5.6 - 7.9  |
| FR45  | 6.0 - 7.5  | 70-90   | 7.9 - 10.1 |
| M8  | 7.1 - 8.0  | 85-95   | 9.6 - 10.7 |
| DT (Stud), M10M (Stud)                            | 9.2 - 10.4 | 110-125 | 12.2 - 14  |



9001:2008 Quality Management System  
 14001:2004 Environmental Management System  
 18001:2007 Occupational Health & Safety Management System



TPPL TECHNOLOGY

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Fullriver batteries are sealed lead acid batteries made with Absorbed Glass Mat (AGM) technology. The electrolyte is absorbed into the fiberglass separator material rather than in a free-flowing liquid form. Fullriver batteries are non-spillable electric storage batteries. They are exempted from the requirements of DOT's hazardous materials regulations, since they adhere to the requirements of code 49 CFR Section 173.159(D) - (CLASSIFIED APPROVED: DOT, CFR, HMR49, IATA, ICAO67, IMDG27)