# FT930-65



## CYCLING CAPACITY

| | |
|---|---|
| 20 Hour Rate | **75 Amp Hours** |

## RESERVE CAPACITY

| | | | |
|---|---|---|---|
| Reserve @25 AMPS | **168 Minutes** | Reserve @75 AMPS | **26.1 Minutes** |

## ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Nominal Voltage | **12 Volt** |
| C100 | **82 AH** |
| C20 | **75 AH** |
| C5 | **60 AH** |
| Short Circuit Current | **4000 Amps** |
| CCA | **930 Amps** |
| CA or MCA | **1070 Amps** |
| PHCA | **1750 Amps** |
| Internal Resistance | **3.1 mΩ** |

## MECHANICAL SPECIFICATIONS

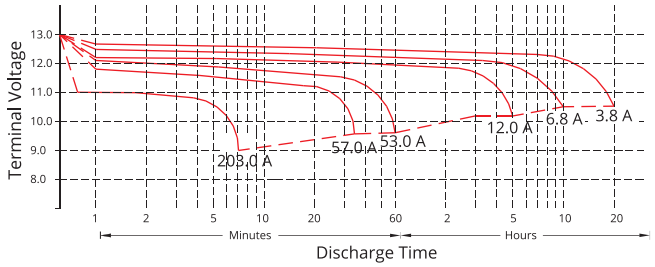
| | | |
|---|---|---|
| Group Size | **65** | |
| Terminal Type | **M8 + TP28 (SAE)** | |
| Terminal Torque | **See reverse side** | |
| Height (w/ terminal) | **7.24"** | **184 mm** |
| Height (case only) | **6.65"** | **169 mm** |
| Width | **7.17"** | **182 mm** |
| Length | **11.81"** | **300 mm** |
| Weight | **54.9 lbs** | **24.5 kg** |
| Case Type | **ABS Plastic -** Flame Res. Rating UL94-HB | |

## DISCHARGE TABLE (Constant Current)

| Time | Amps | Rate |
|---|---|---|
| 20hr | 3.8 | 0.05 CA |
| 10hr | 6.8 | 0.10 CA |
| 8hr | 8.2 | 0.13 CA |
| 5hr | 12.0 | 0.25 CA |
| 3hr | 18.5 | 0.33 CA |
| 2hr | 25.1 | 0.50 CA |
| 1hr | 53.5 | 1.00 CA |

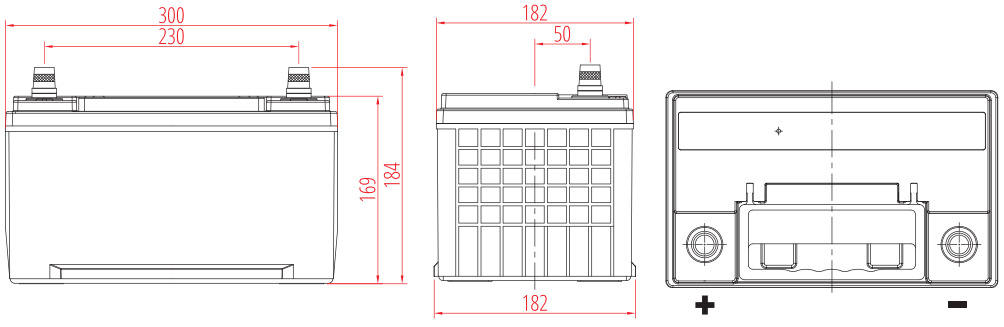
## DISCHARGE PROFILE (Constant Current)

**12-Volt Battery** *Temperature: 77°F (25°C)*

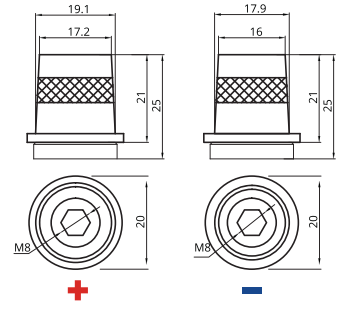



*- All listed ratings are @ 100% SoC, T=77°F (25°C), 1.75VPC unless otherwise specified.*
*- Specifications listed are for estimation purposes only. Battery performance can vary depending on application. Battery design subject to change.*

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



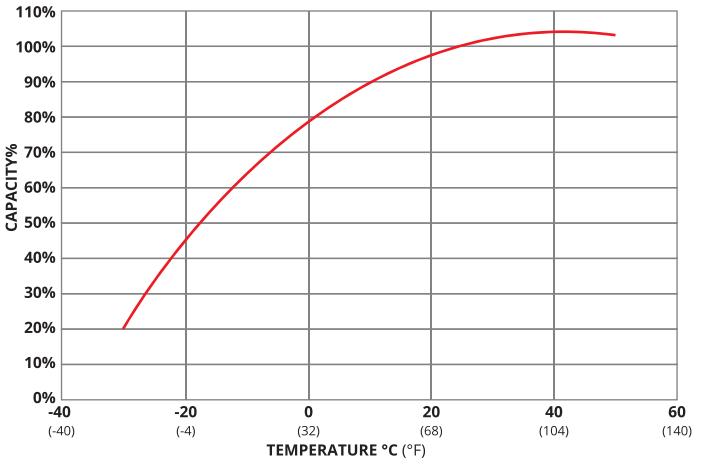

### Terminal: M8 + TP28



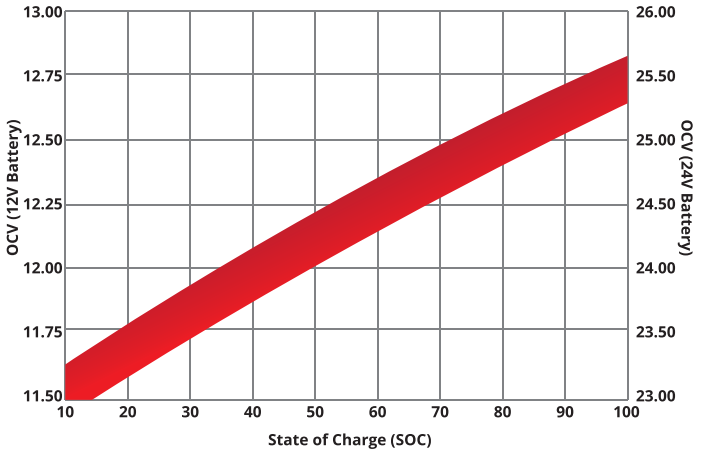

FULL THROTTLE SERIES | HIGH CRANKING AGM

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## TEMPERATURE vs CAPACITY

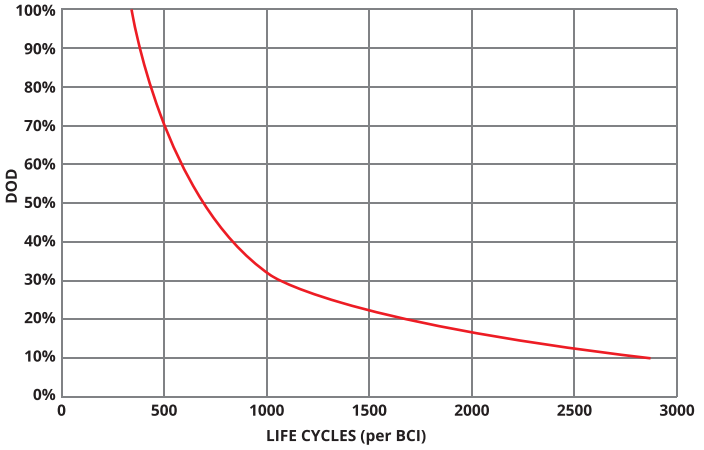



## STATE of CHARGE (SOC) vs OPEN CIRCUIT VOLTAGE (OCV)

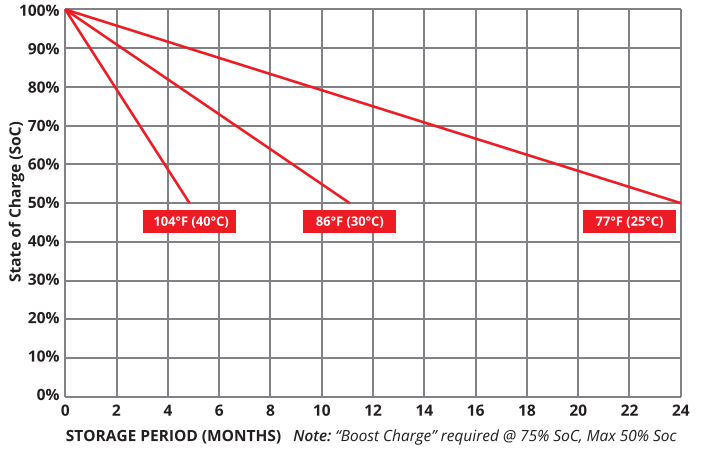



## CYCLE LIFE vs DEPTH of DISCHARGE (DOD)

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




## SELF DISCHARGE vs TIME/TEMPERATURE




*Note: "Boost Charge" required @ 75% SoC, Max 50% Soc*

## 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

| | Battery Voltages | | | |
|---|---|---|---|---|
| **Charge Stage** | **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** |

ISO CERTIFIED

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

TPPL TECHNOLOGY

DELIVERY APPROVED!
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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 excepted 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)**