



## SEMI TRACTION

UTILITY, SOLAR & MARINE

### PHYSICAL CHARACTERISTICS

|                | SI Units | US Units  |
|----------------|----------|-----------|
| Length         | 345 mm   | 13.6 inch |
| Width          | 175 mm   | 6.9 inch  |
| Height         | 230 mm   | 9.1 inch  |
| Typical weight | 26.0 kg  | 57.32 lbs |

## 95804 - 12V 105 Ah (C<sub>20</sub>)



### Specifications:

- Nominal voltage: 12 V
- Rated capacity: 105 Ah (at C<sub>20</sub> and 25 °C)
- CCA ( EN ): 700 A
- Plate technology: Antimony / Calcium
- Separator: Polyethylene + Glass mat
- Electrolyte: Sulphuric acid; analytical grade
- Standards: IEC 60254; IEC 61427
- Case / Lid material: Polypropylene
- Lid type: MF
- Terminal type: Top / Automotive
- Carrying Handles: Available
- Cycles at 50% DoD: up to 400 cycles
- PVES applications: up to 800 cycles

### Performance characteristics:

#### BATTERY DISCHARGE PERFORMANCE AT 25°C

| Discharge rate           | C <sub>5</sub> (5 h) | C <sub>20</sub> (20 h) | C <sub>100</sub> (100 h) | Capacity at 25 A |
|--------------------------|----------------------|------------------------|--------------------------|------------------|
| End of discharge voltage | 10.20 V              | 10.50 V                | 10.80 V                  | 10.50 V          |
| Discharge capacity       | 90 Ah                | 105 Ah                 | 115 Ah                   | 192 min          |

#### Temperature correction factor of discharge C<sub>5</sub> (5 h) capacity

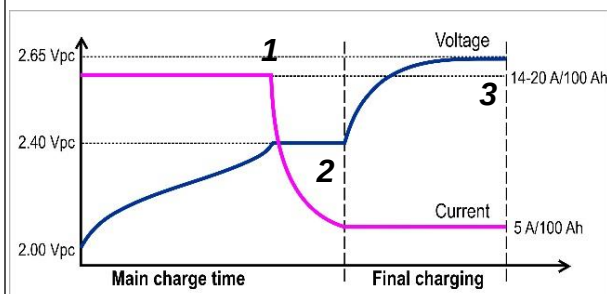
| Temperature       | -10 °C | 0 °C | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C |
|-------------------|--------|------|-------|-------|-------|-------|-------|
| Correction factor | 0.80   | 0.88 | 0.98  | 1.00  | 1.03  | 1.05  | 1.07  |

#### BATTERY CHARGE CONDITIONS AT 25°C

##### Charging profile:

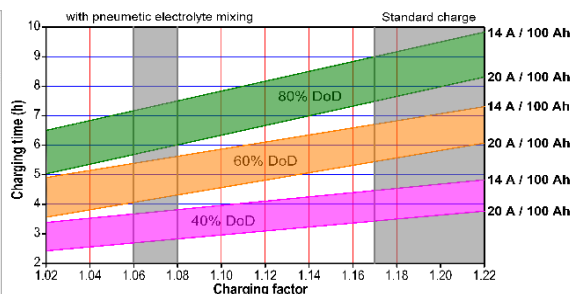
Charge factor: 1.10 – 1.20

IULa –characteristics for flooded batteries



Stage1: Constant current Stage 2: Constant voltage Stage 3: Constant current

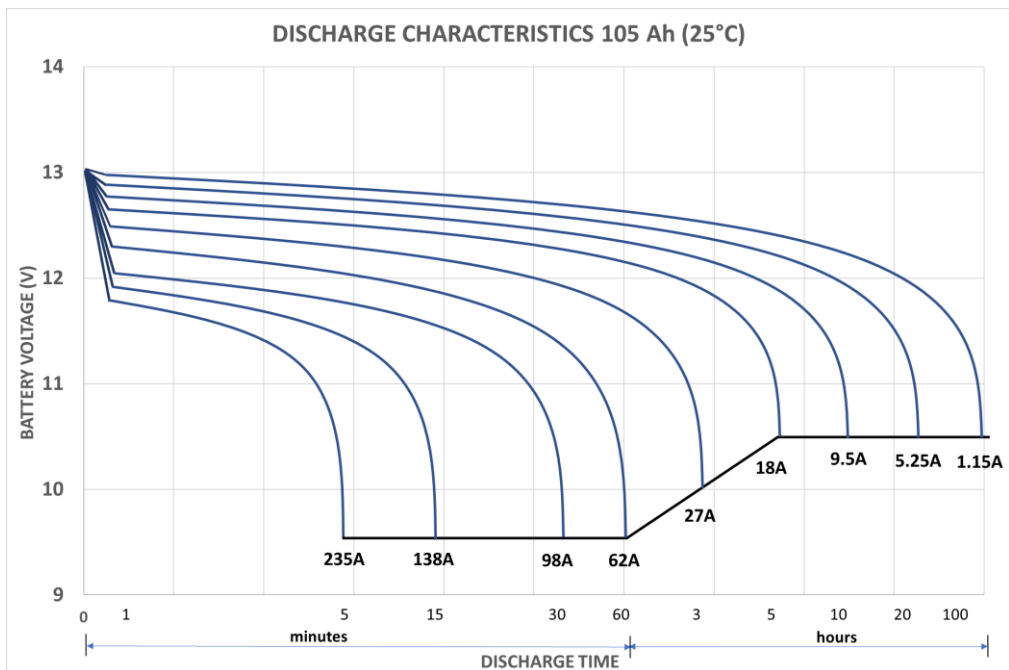
Charging times with IULa-characteristics in hours at 25 °C



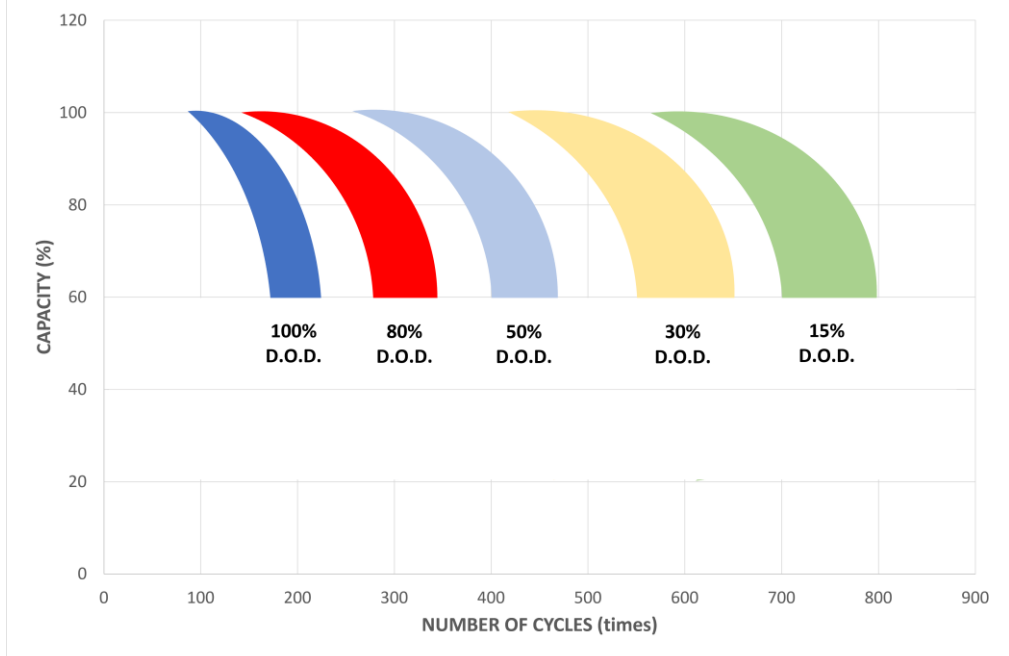
**It is mandatory to check the electrolyte level every 3 months and top up with deionized water to the markings.**

**BATTERY DISCHARGE CURVES AT 25°C**

**DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A)**



**Cycle service life in relation to depth of discharge (SEMI TRACTION)**



**It is mandatory to check the electrolyte level every 3 months and top up with deionized water to the markings.**