

**SEMI  
TRACTION**
**PHYSICAL CHARACTERISTICS**

|                | SI Units | US Units   |
|----------------|----------|------------|
| Length         | 518 mm   | 20.2 inch  |
| Width          | 274 mm   | 10.8 inch  |
| Height         | 242 mm   | 7.9 inch   |
| Typical weight | 60,40 kg | 133,16 lbs |

**96801 - 12V 230 Ah (C<sub>20</sub>)**

**Specifications:**

- Nominal voltage: 12 V
- Rated capacity: 230 Ah (at C<sub>20</sub> and 25 °C)
- CCA ( EN ): 1350 A
- Plate technology: Antimony / Antimony
- Separator: Polyethylene + Glass mat
- Electrolyte: Sulphuric acid; analytical grade
- Standards: IEC 60254; IEC 61427
- Case / Lid material: Polypropylene
- Lid type: Flat
- 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**

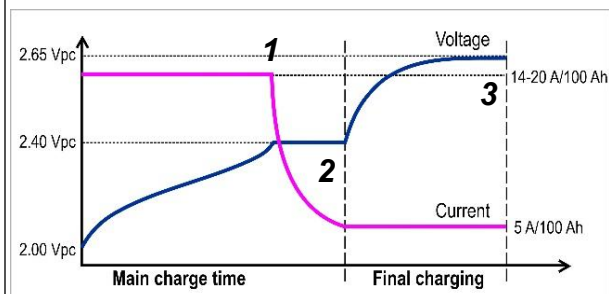
| Discharge rate           | C <sub>5</sub> (5 h) | C <sub>20</sub> (20 h) | C <sub>100</sub> (100 h) | Capacity at 25 A |
|--------------------------|----------------------|------------------------|--------------------------|------------------|
| End of discharge voltage | 10.20 V              | 10.50 V                | 10.80 V                  | 10.50 V          |
| Discharge capacity       | 190 Ah               | 230 Ah                 | 253 Ah                   | 460 min          |

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

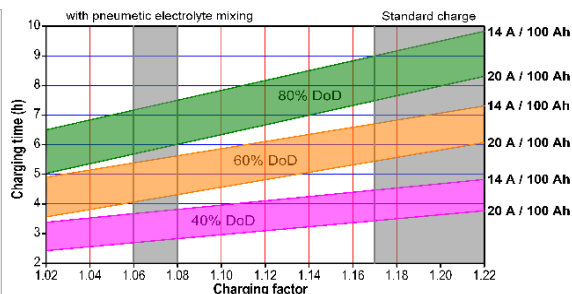
| Temperature       | -10 °C | 0 °C | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C |
|-------------------|--------|------|-------|-------|-------|-------|-------|
| Correction factor | 0.80   | 0.88 | 0.98  | 1.00  | 1.03  | 1.05  | 1.07  |

**BATTERY CHARGE CONDITIONS AT 25°C**
**Charging profile:**
**Charge factor: 1.10 – 1.20**

IUla –characteristics for flooded batteries

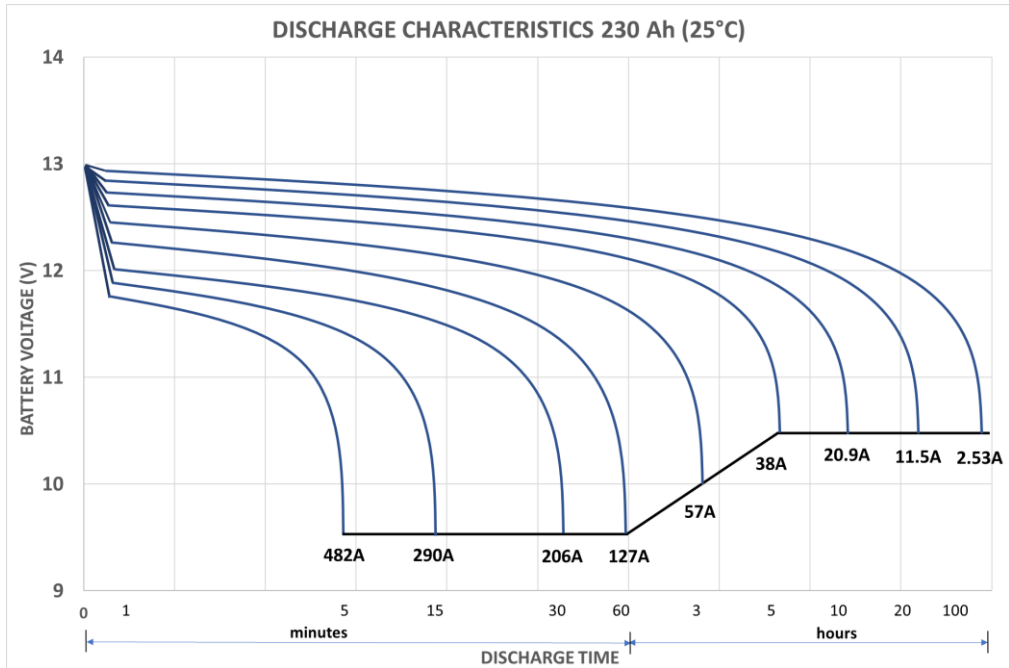

**Stage1:** Constant current **Stage 2:** Constant voltage **Stage 3:** Constant current

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

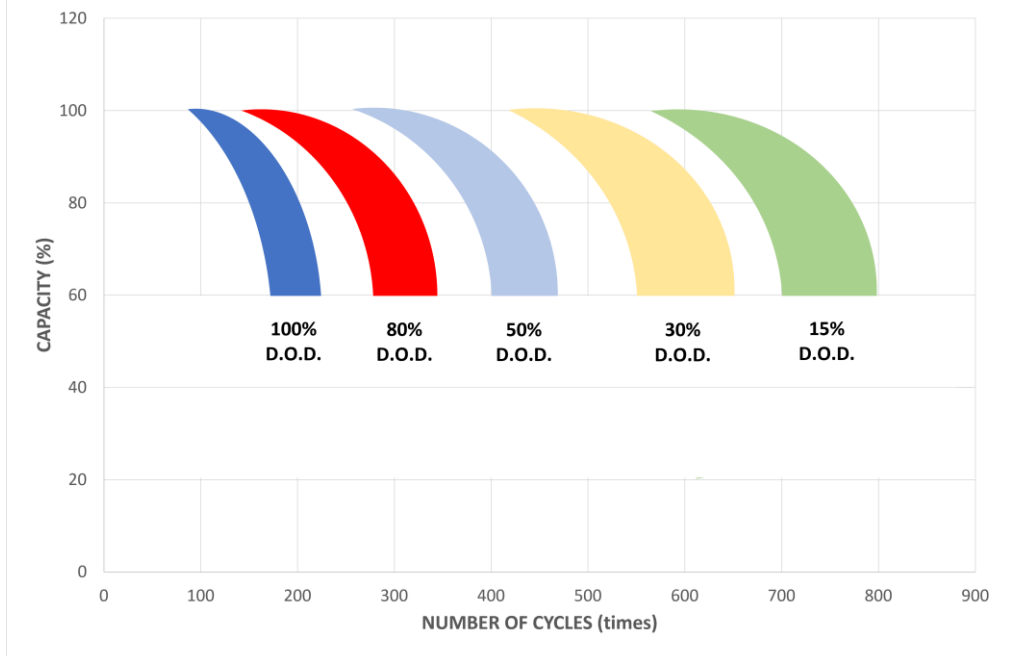

**It is mandatory to check the electrolyte level every 3 months and top up with deionized water to the markings.**

**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.**

**Battery Technical Datasheet Annex**  
**according to REGULATION (EU) 2023/1542/ANNEX 4**  
**ELECTROCHEMICAL PERFORMANCE AND DURABILITY REQUIREMENTS FOR LMT BATTERIES,**  
**INDUSTRIAL BATTERIES WITH A CAPACITY GREATER THAN 2 KWH AND ELECTRIC VEHICLE**  
**BATTERIES**

| Battery model                       | 96801  | Semi Traction                         |
|-------------------------------------|--------|---------------------------------------|
| Rated Capacity, Ah                  | 253    | C100 at 25 °C to Uf=1.8Vpc; IEC 61427 |
| Power fade %                        | 80     |                                       |
| Power, W                            | 304    | I100 25.3A to Uf=1.8Vpc               |
| Energy round trip efficiency %      | >90    | IEC 61427, 75% SoC                    |
| Energy round trip efficiency fade % | 72     | IEC 61427, 75% SoC                    |
| Charge rate                         | 0.2C10 |                                       |
| W/Wh ratio                          | 0.1    |                                       |
| Power capability in Ah at 80% SoC   | 202    |                                       |
| Power capability in Ah at 20% SoC   | 51     |                                       |