



SEMI TRACTION

UTILITY, SOLAR & MARINE

PHYSICAL CHARACTERISTICS

	SI Units	US Units
Length	513 mm	20.2 inch
Width	189 mm	7.4 inch
Height	223 mm	8.4 inch
Typical weight	39,00 kg	85,98 lbs

96151 - 12V 140 Ah (C₂₀)



Specifications:

- Nominal voltage: 12 V
- Rated capacity: 140 Ah (at C₂₀ and 25 °C)
- CCA (EN): 970 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 ₅ (5 h)	C ₂₀ (20 h)	C ₁₀₀ (100 h)	Capacity at 25 A
End of discharge voltage	10.20 V	10.50 V	10.80 V	10.50 V
Discharge capacity	120 Ah	140 Ah	154 Ah	270 min

Temperature correction factor of discharge C₅ (5 h) capacity

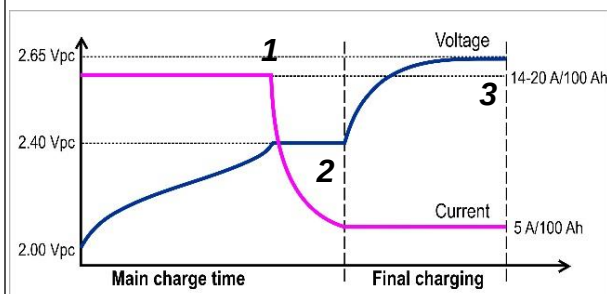
Temperature	-10 °C	0 °C	20 °C	25 °C	30 °C	35 °C	40 °C
Correction factor	0.80	0.88	0.98	1.00	1.03	1.05	1.07

BATTERY CHARGE CONDITIONS AT 25°C

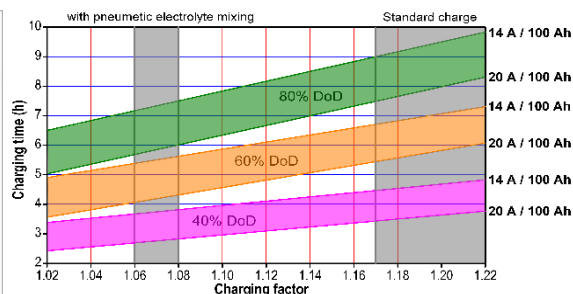
Charging profile:

Charge factor: 1.10 – 1.20

IULa –characteristics for flooded batteries



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

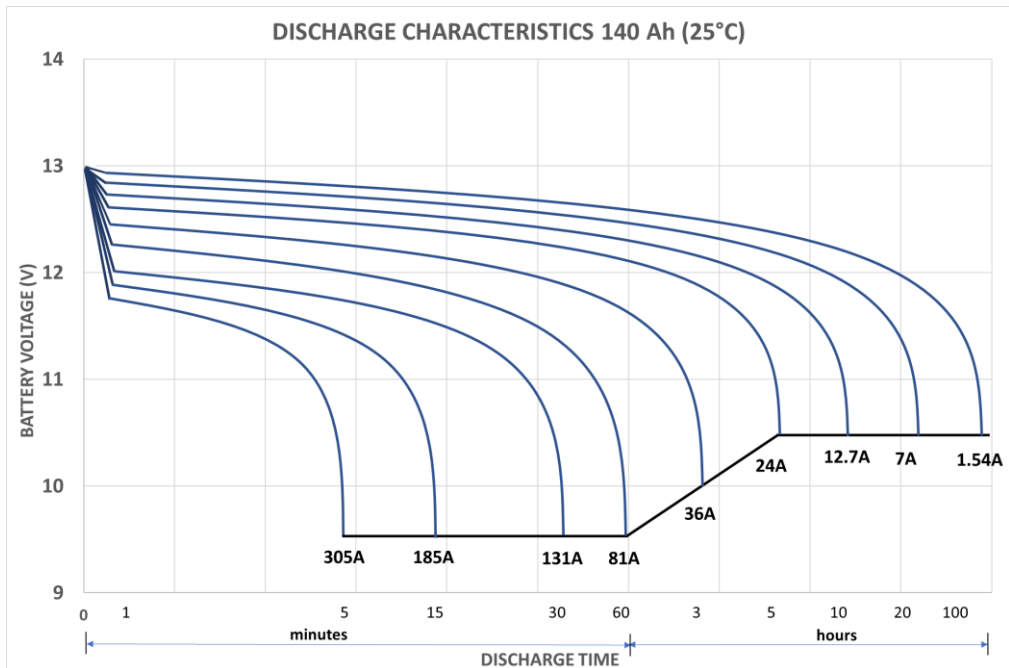


Stage1: Constant current Stage 2: Constant voltage Stage 3: Constant current

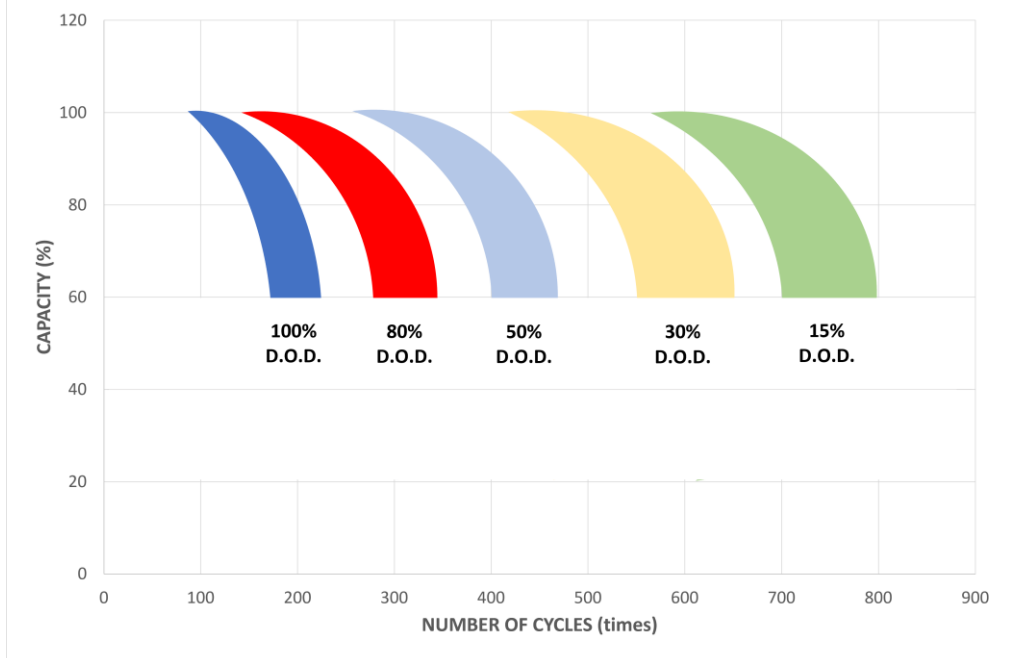
It is mandatory to check the electrolyte level every 3 months and top up with deionized water to the markings.

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.