GR24 12V DC-80 Ah (C_{20})



PHYSICAL CHARACTERISTICS		
	SI Units	US Units
Length	260 mm	10.2 inch
Width	175 mm	6.9 inch
Height	220 mm	8.7 inch
Typical weight	21,25 kg	46,85 lbs



Specifications:

- Nominal voltage: 12 V
- Rated capacity: 80 Ah (at C_{20} and 25 °C)
- Plate technology: Antimony / Calcium
- Separator: Polyethylene + glass mat
- Electrolyte: Sulphuric acid; analytical grade
- Standards: IEC 60254; IEC 61427
- Case / Lid material: Polypropylene
- Lid type: Flat
- Terminal type: Dual/Bolted
- Carrying Handles: Available
- Cycles at 50% DoD: up to 400 cycles
- PVES applications: up to 900 cycles

Performance characteristics:

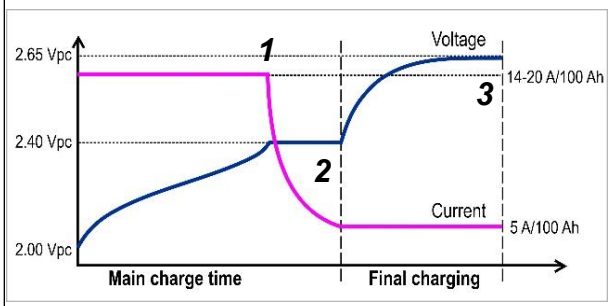
BATTERY DISCHARGE PERFORMANCE AT 25°C				
Discharge rate	**C_5 (5 h)**	**C_{20} (20 h)**	**C_{100} (100 h)**	**Capacity at 25 A**
End of discharge voltage	10,20 V	10,50 V	10,80 V	10,50 V
Discharge capacity	65 Ah	80 Ah	90 Ah	130 min

Temperature correction factor of discharge C_5 (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

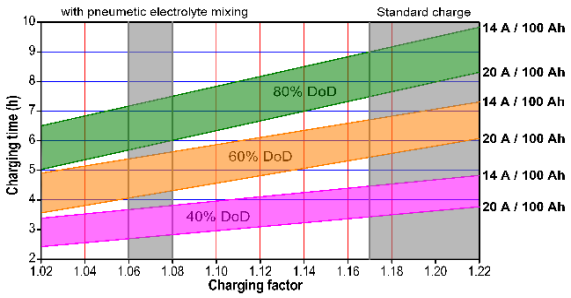
BATTERY CHARGE CONDITIONS AT 25oC

Charging profile: **Charge factor: 1.10 – 1.20**

IUIa –characteristics for flooded batteries



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



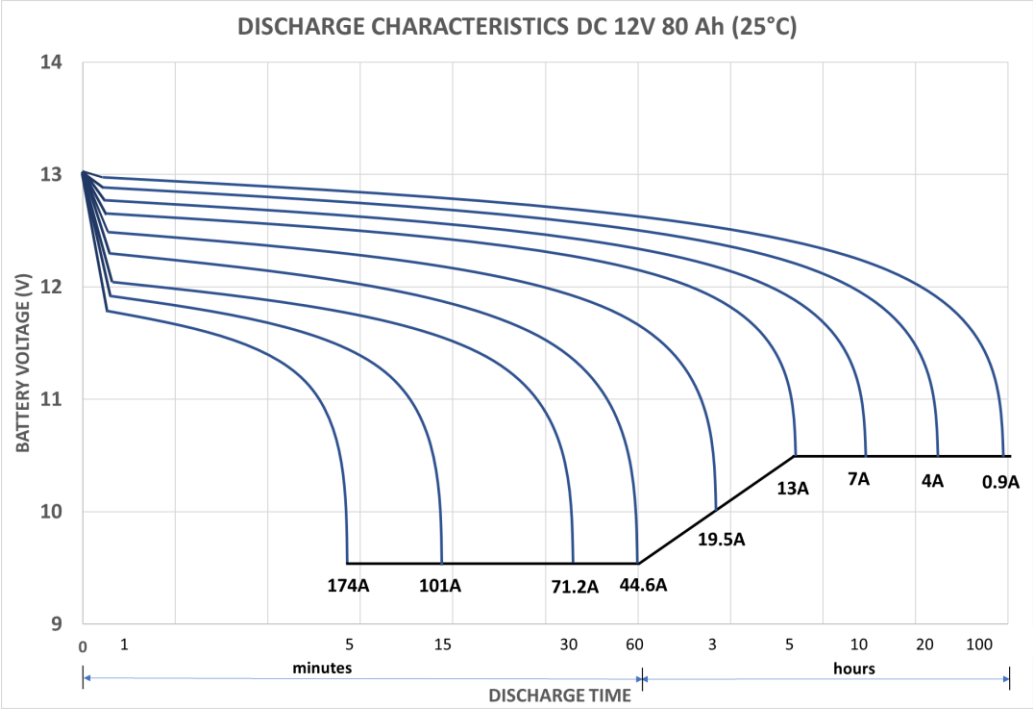
Stage1: Constant current **Stage 2**: Constant voltage **Stage 3**: Constant current

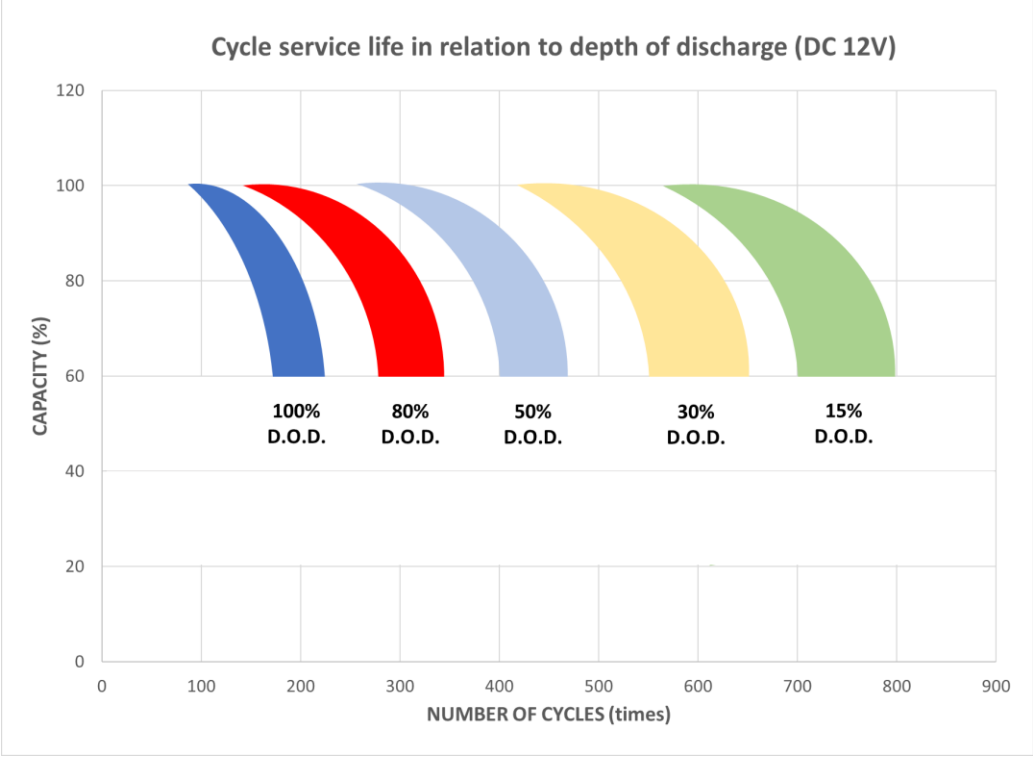
It is mandatory to check the electrolyte level every 3 months and top up with deionized water to the markings.

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BATTERY DISCHARGE CURVES AT 25oC

DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A)





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

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