



DEEP CYCLE

PROFESSIONAL

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

GR24 12V DC-80 Ah (C₂₀)



Specifications:

- Nominal voltage: 12 V
- Rated capacity: 80 Ah (at C₂₀ 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 C₅ (5 h) capacity

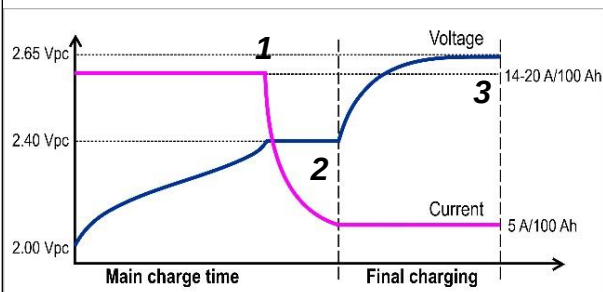
Temperature	-10 °C	0 °C	20 °C	25 °C	30 °C	35 °C	40 °C
Correction factor	0.80	0.88	0.98	1.00	1.03	1.05	1.07

BATTERY CHARGE CONDITIONS AT 25°C

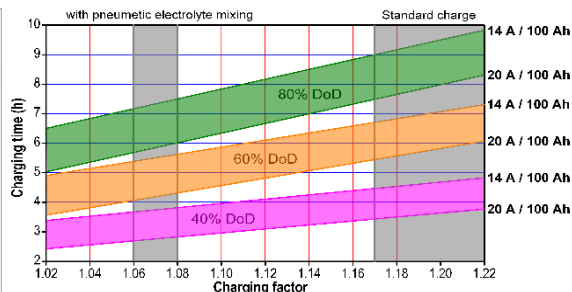
Charging profile:

Charge factor: 1.10 – 1.20

IUla –characteristics for flooded batteries



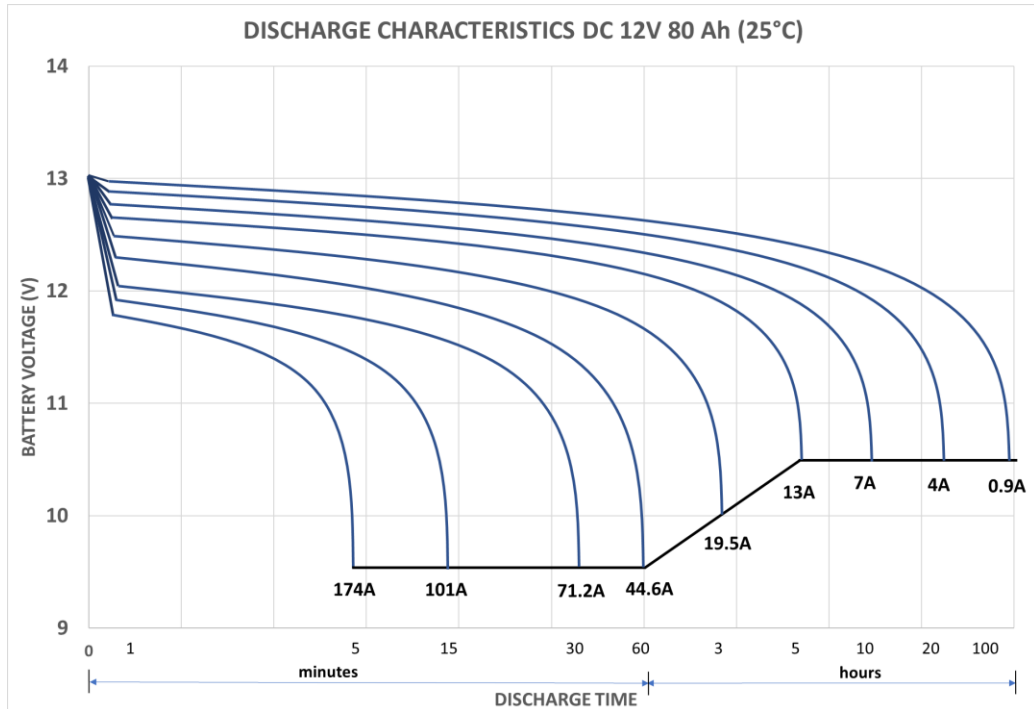
Charging times with IUla-characteristics in hours at 25 °C



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

BATTERY DISCHARGE CURVES AT 25°C

DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A)



Cycle service life in relation to depth of discharge (DC 12V)

