



**DEEP CYCLE**  
PROFESSIONAL

**GR24 12V DC-80 Ah (C<sub>20</sub>)**



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	20,45 kg	45.08 lbs

**Specifications:**

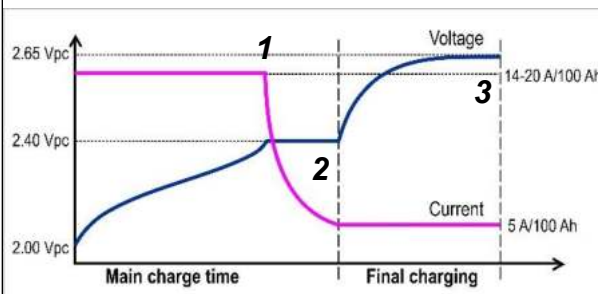
- Nominal voltage: 12 V
- Rated capacity: 80 Ah (at C<sub>20</sub> and 25 °C)
- Plate technology: Antimony / Calcium
- Separator: Polyethylene + glass mat
- Electrolyte: Sulphuric acid; analytical grade
- Standards: IEC 60254; IEC 61427
- Case / Lid material: Polypropylene
- Lid type: Flat
- Terminal 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 <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	65 Ah	80 Ah	90 Ah	130 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

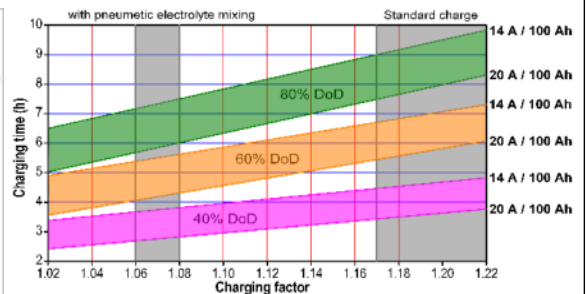
BATTERY CHARGE CONDITIONS AT 25°C	
Charging profile:	Charge factor: 1.10 – 1.20

I<sub>U</sub>I<sub>a</sub> –characteristics for flooded batteries



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

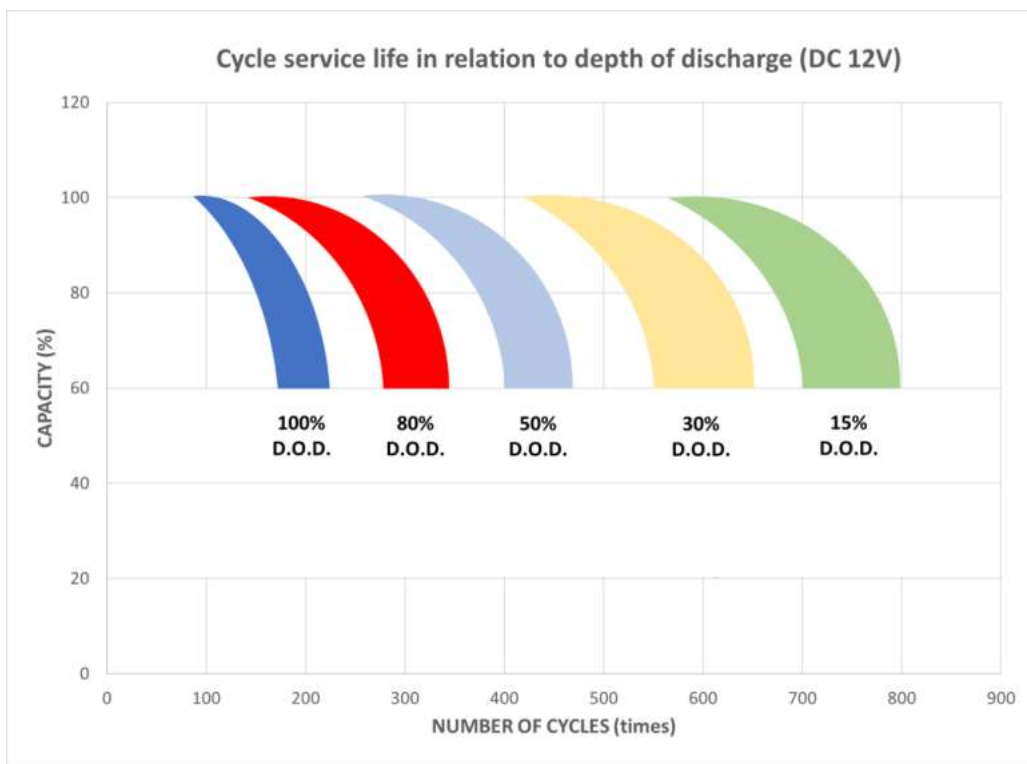
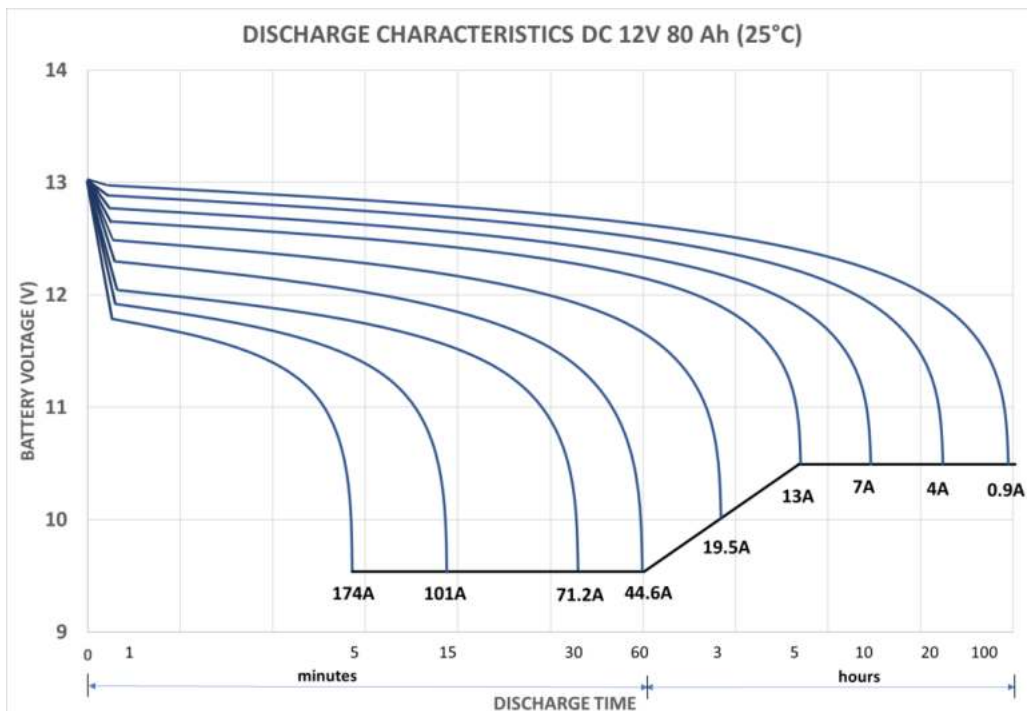
Charging times with I<sub>U</sub>I<sub>a</sub>-characteristics in hours at 25 °C



**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)



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