

12 V 83 Ah (C₁₀) Deep Cycle AGM Battery

PHYSICAL CHARACTERISTICS

	SI Units	US Units
Length	353 mm	13.9 inch
Width	175 mm	6.9 inch
Height	190 mm	7.5 inch
Typical weight	27.1 kg	59.74 lbs



Specifications:

- Nominal voltage: 12 V
- Rated capacity: 83 Ah (at C₁₀)
- Separator: AGM
- Electrolyte: Sulphuric acid; analytical grade
- Self discharge: < 2.5% per month at 20°C
- Standards: IEC 61056; IEC 61427; IEC 60896
- Venting valve: One way, self resealing
- Degassing system: Central with flame arrestor
- Terminal type: Top / Automotive
- Case / lid material: Polypropylene
- Carrying Handles: Available (1)

Performance characteristics:

BATTERY DISCHARGE PERFORMANCE AT 25°C

Discharge time	15 min	1 h	5 h	10 h	100 h
End of discharge voltage	9.60 V	9.60 V	10.20 V	10.80 V	10.80 V
Discharge capacity	44 Ah	65 Ah	80 Ah	83 Ah	90 Ah
Constant power discharge (per block)	1900 W	740 W	190 W	100 W	10.8 W
Reserve capacity at 25 A	175 min / 73 Ah				

Temperature correction factor of discharge capacity

Temperature	-20 °C	-10 °C	0 °C	10 °C	20 °C	40 °C
Correction factor	0.50	0.70	0.83	0.91	0.97	1.04

BATTERY CHARGE CONDITIONS

Constant current charge	Current range: 0.1 – 0.2C ₁₀ A
Constant voltage charge	Voltage range: 14.10 – 15.10 V (Recommended: 14.40 V)
Float voltage	13.62 V (2.27 Vpc) at 20 °C
Temperature correction factor	Below 20 °C: + 0.018 V/block/°C; Above 20 °C: - 0.018 V/block/°C
Float application	Recommended: max. 0.1C ₁₀ A / 13.62 V (2.27 Vpc)
Cycle applications	Recommended: max. 0.2C ₁₀ A / 14.40 V (2.40 Vpc) Recharge Ah: at least 105% from previous discharge Ah

