

## 12 V 83 Ah (C<sub>10</sub>) 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 C<sub>10</sub>)
- 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 <sub>10</sub> 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 <sub>10</sub> A / 13.62 V (2.27 Vpc)
Cycle applications	Recommended: max. 0.2C <sub>10</sub> A / 14.40 V (2.40 Vpc) Recharge Ah: at least 105% from previous discharge Ah

