AGM
DUAL PURPOSE/DEEPCYCLE

AGM 195C-180 Ah (C_{20})



PHYSICAL CHARACTERISTICS		
	SI Units	US Units
Length	518 mm	20,2 inch
Width	274 mm	10,7 inch
Height[A]	242 mm	9,5 inch
Typical weight[B]	56,00 kg	123,45 lbs

Specifications:

- Nominal voltage: 12 V
- Rated capacity: 180 Ah (at C_{20} and 25 °C)
- CCA (EN): 1300 A
- Plate technology: Calcium / Calcium
- Separator: AGM
- Electrolyte: Sulphuric acid; analytical grade
- Standards: IEC 60254; IEC 61427
- Case / Lid material: Polypropylene
- Lid type: Kamina
- Terminal type: Conical
- Carrying Handles: Available
- Cycles at 50% DoD: up to 500 cycles
- PVES applications: up to 1000 cycles

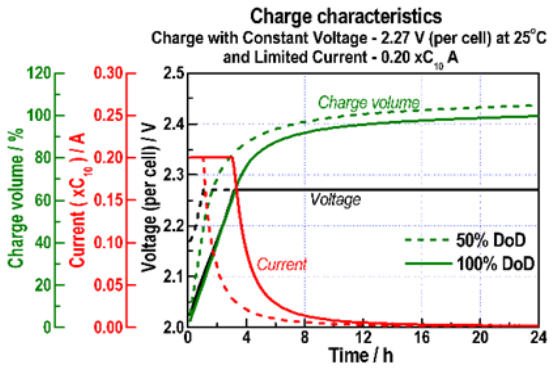
Performance characteristics:

BATTERY DISCHARGE PERFORMANCE AT 25°C					
Discharge rate	**C_5 (5 h)**	**C_{10} (10 h)**	**C_{20} (20 h)**	**C_{100} (100 h)**	**Capacity at 25 A**
End of discharge voltage	10.20 V	10.80 V	10.50 V	10.80 V	10.50 V
Discharge capacity	145 Ah	165 Ah	180 Ah	195 Ah	350 min

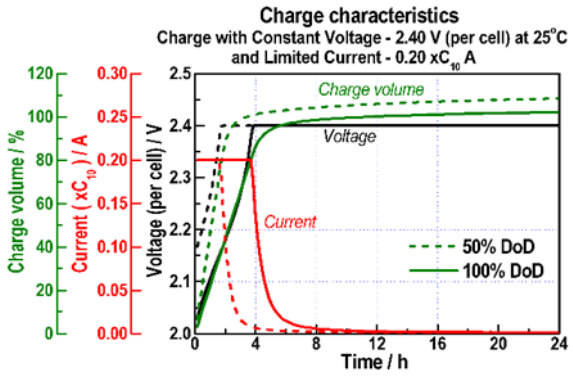
Temperature correction factor of discharge C_5 (5 h) capacity							
Temperature	-10 °C	0 °C	20 °C	25 °C	30 °C	35 °C	40 °C
Correction factor	0.80	0.88	0.98	1.00	1.03	1.05	1.07

BATTERY CHARGE CONDITIONS AT 25oC	
Charging profile: Float / Boost	**Charge factor: 1.05 – 1.07**

Float charge voltage



Boost charge voltage

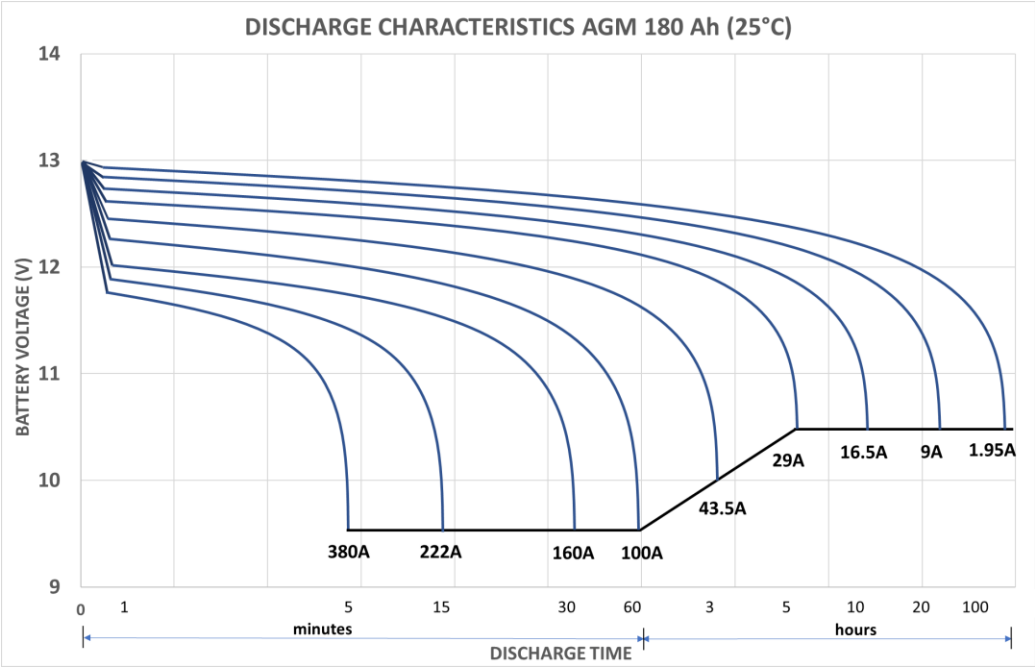


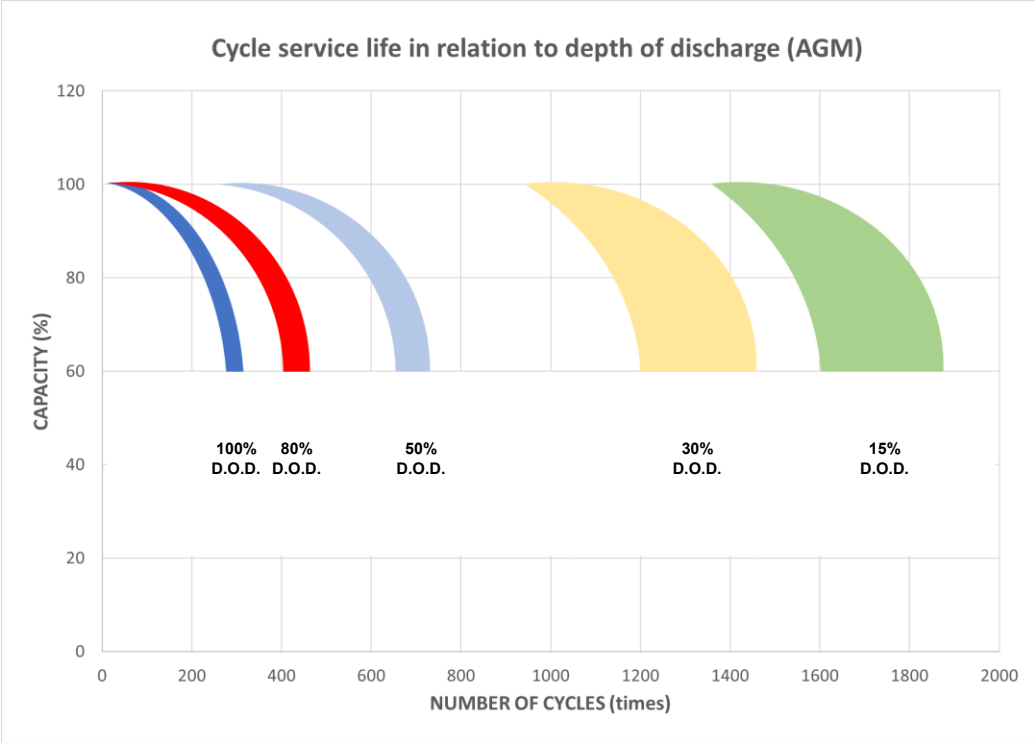
MONBAT Plc, 32A, Cherni vrah Blvd., fl. 4, 1407 Sofia, Bulgaria, tel: +359 2 962 11 50, fax:+359 2 962 11 46, e-mail: monbat.trading@monbat.com

BATTERY DISCHARGE CURVES AT 25oC

DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A)

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MONBAT Plc, 32A, Cherni vrah Blvd., fl. 4, 1407 Sofia, Bulgaria, tel: +359 2 962 11 50, fax:+359 2 962 11 46, e-mail: monbat.trading@monbat.com

MONBAT BATTERIES TECHNICAL DATA SHEET **AGM DEEP CYCLE 12V**

Battery Technical Datasheet Annex
according to REGULATION (EU) 2023/1542/ANNEX 4
ELECTROCHEMICAL PERFORMANCE AND DURABILITY REQUIREMENTS FOR LMT BATTERIES, INDUSTRIAL BATTERIES WITH A CAPACITY GREATER THAN 2 KWH AND ELECTRIC VEHICLE BATTERIES

Battery model	AGM 195 C	**AGM Deep Cycle**
Rated Capacity, Ah	195	C100 at 25 ^{o}C to Uf=1.8Vpc, IEC 61427
Power fade %	80	
Power, W	234	I100 22A to Uf=1.8Vpc
Energy round trip efficiency %	>95	IEC 61427, <50% SoC
Energy round trip efficiency fade %	76	IEC 61427, <50% SoC
Charge rate	0.2C10	
W/Wh ratio	0.1	
Power capability in Ah at 80% SoC	156	
Power capability in Ah at 20% SoC	39	