

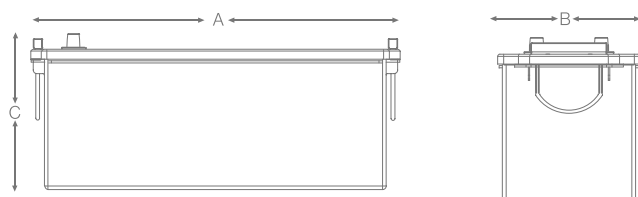


Solar & Deep Cycle Bloc Batteries

S06-12-220

(12V 230Ah @ 100hr)

Werbat valve regulated lead-acid batteries for the deep cyclic market. With an innovative Gel-technology and maintenance free design, Eternity Technology Gel Bloc batteries are compatible with all universal cyclic and renewable applications.



Electrical Specifications

Voltage	12V
80% DOD Voltage Cutoff	11.2V
Low Voltage Cutoff	10.8V
Self Discharge	Less than 3% per month (20°C/68°F)
Charge Temperature	Min: -10°C (14°F) / Max: 50°C (122°F)
Discharge Temperature**	Min: -40°C (-40°F) / Max: 50°C (122°F)
Storage	Min: -20°C (-4°F) / Max: 60°C (140°F)

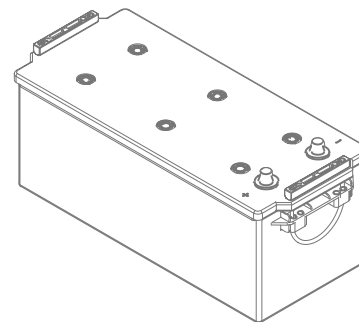
Amp Hours (AH)					
120 HR	100 HR	72 HR	20 HR	10 HR	5 HR
235	230	221	212	200	177

** CAUTION: Depths of discharge, operating voltages and currents, when designing systems for use at maximum temperatures, will vary.

Mechanical Specifications

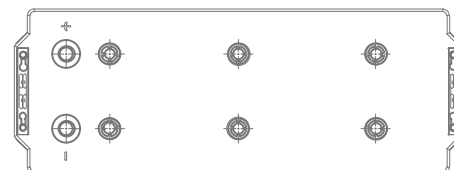
Industry Reference	DIN C	
Length (A)	20.4 in	518 mm
Width (B)	10.8 in	274 mm
Height (C)	9.4 in	238 mm
Weight	50 lbs	68 kgs
Terminal (Opt'l)*	A-Pole (Industrial Terminal optional)	
Cell(s)	6	
Electrolyte	Gel	
Terminal Torque Nm	n/a	

NOTE: There is a tolerance of +/-2%.



Part of our Bloc Batteries range

Positive



Negative

Features

Maintenance-free bloc batteries in Gel technology (no topping up during lifetime)

Good high current performance for extreme operating conditions

High-class patented safety valve

1200 cycles (IEC 61427 / 60896-21/22)

Capacity: 12V 55Ah-220Ah(C₂₀)

Valve-regulated lead-acid battery

Recyclable

Long cycle life

Low self discharge rate allows for up to 2 years shelf life

Classified as a non-spillable battery is not restricted for transportation by:

- Air (IATA/ICAO provision 67)
- Ground (STB, DOT-CFR-HMR49)
- Water (IMDG amendment 27)

Applications

Solar

Home Inverter

Renewable Energy

Deep Cycle Applications

Compliant with IEC 61427 / 60896-21/22

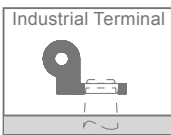
Charging profile

- IU Charging

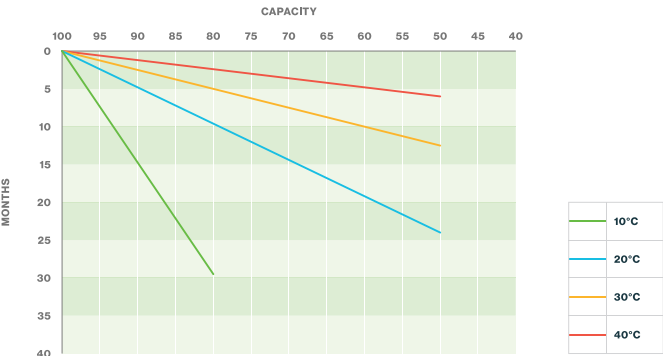
I = min. 12% C₅ max. 18% C₅
U = 2.4 V per cell
- IUI Charging

I1 = min. 12% C₅ max. 18% C₅
U = 2.35 V per cell
I2 = 1.5 % C₅ for max. 4 hours

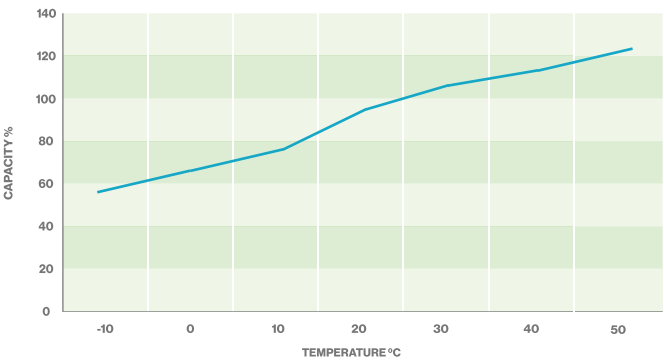
Torque



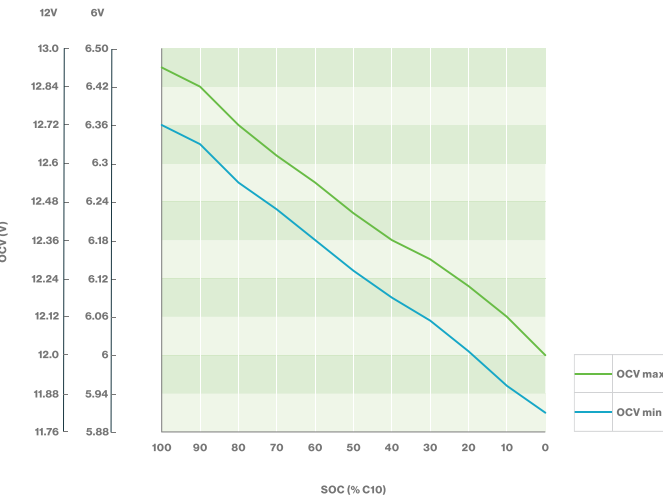
Self discharge at different temperatures



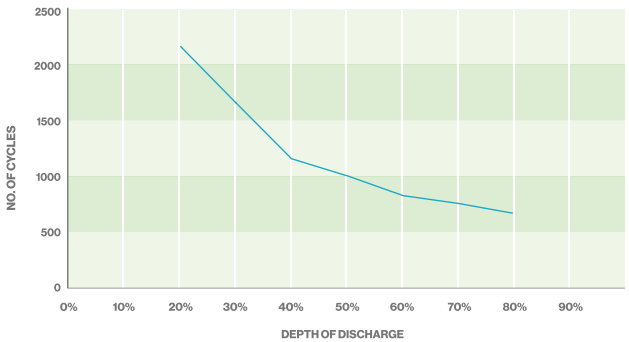
Capacity vs. temperature



Storage: Determine the state of charge



Cycle life vs. depth of discharge (250C)



Relation between charging, voltage and temperature

