PSC SOLAR (UK)

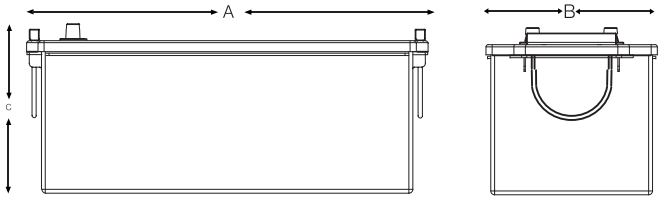
Africa's Solar Electricity Power

Solar & Deep Cycle Bloc Batteries

S06-12-170 3

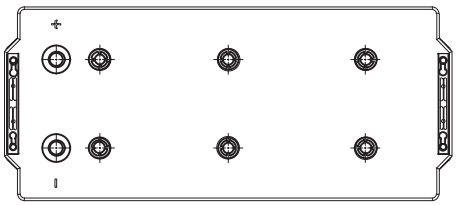
(12V 170Ah @ 100hr)

Eternity Technologies 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.



B 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(C_{20})
- 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)

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**
174	170	164	159	150	132

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

Mechanical Specifications

Industry Reference	DIN B	
Length (A)	20.2 in	513 mm
Width (B)	8.8 in	223 mm
Height (C)	8.5 in	217 mm
Weight	119 lbs	54 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%.

Applications

- Solar
- Home Inverter
- Renewable Energy
- Deep Cycle Applications

Compliant with IEC 61427 / 60896-21/22

+234 812 085 5444 info@pscsolaruk.com
+(234)-808 955 2800
https://www.pscsolaruk.com

Charging profile

IU Charging

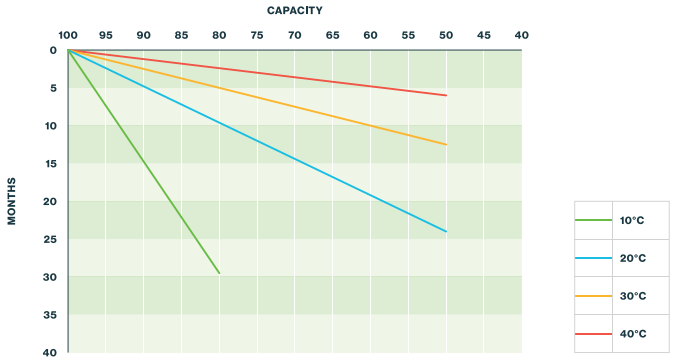
I = min. 12% C_5 max. 18% C_5
U = 2.4 V per cell

IUI Charging

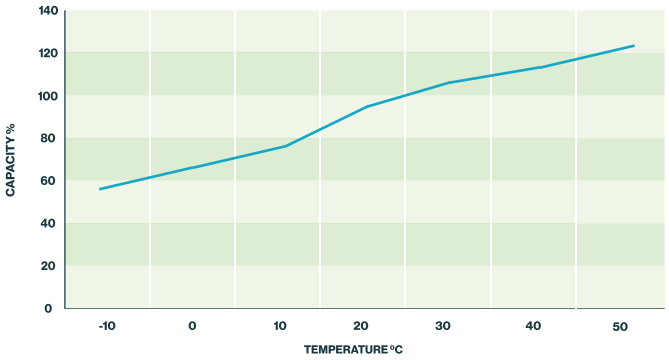
I_1 = min. 12% C_5 max. 18% C_5
U = 2.35 V per cell
I_2 = 1.5 % C_5 for max. 4 hours

Torque

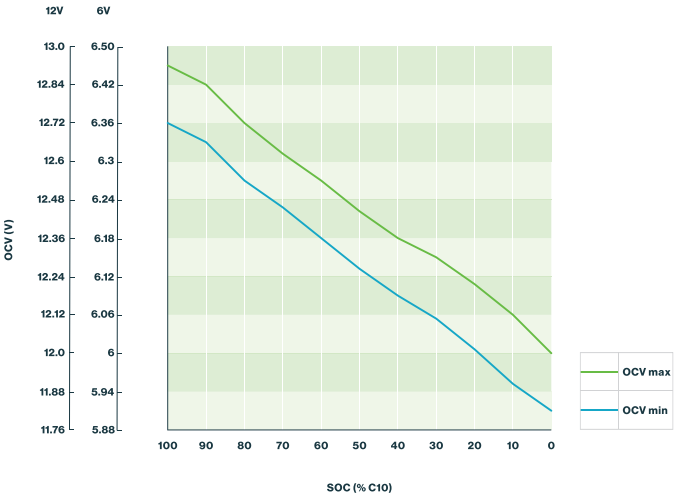
Self discharge at different temperatures



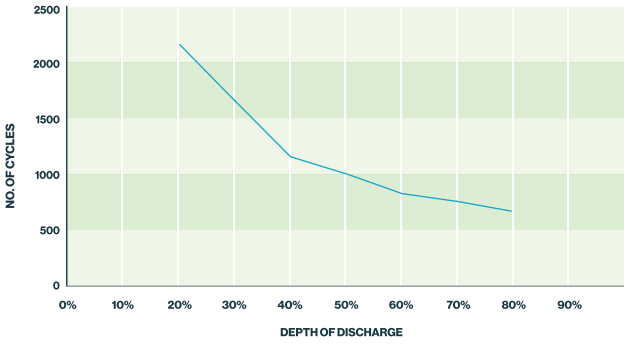
Capacity vs. temperature



Storage: Determine the state of charge



Cycle life vs. depth of discharge (25°C)



Relation between charging, voltage and temperature