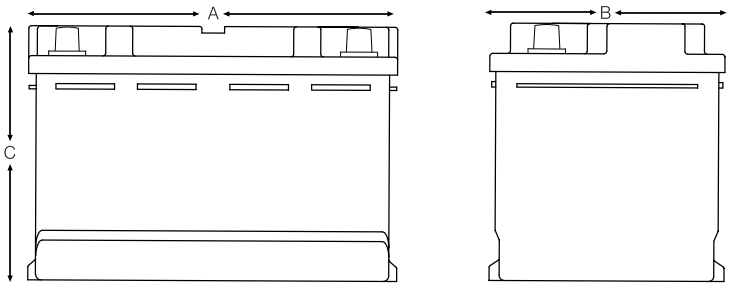
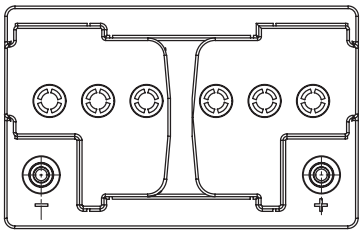
L06-12-56

Gel Leisure Bloc Battery





Left - Negative Right - Positive

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)

Cell Type Ue (100%) / VPC Ref Temp	**C100 1.80 25°C**	**C72 1.80 25°C**	**C20 1.75 25°C**	**C10 1.75 25°C**	**C5 1.70 25°C**	**C3 1.70 25°C**
L06 12 56	58	57	56	54	51	47

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

Mechanical Specifications

Industry Reference	DIN L3	
Length (A)	11 in	277 mm
Width (B)	6.9 in	175 mm
Height (C)	7.5 in	190 mm
Weight	43 lbs	19.5 kgs
Terminal (Opt'l)*	A-POLE	
Cell(s)	6	
Electrolyte	Gel	
Terminal Torque Nm	n/a	

NOTE: There is a tolerance of ± 5%

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
- 700 cycles (DIN EN 60254-1 & IEC 254-1)
- Capacity: 12V 56Ah - 210 Ah (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)

Applications

- Caravans
- Motorhomes
- Maritime
- & other leisure applications

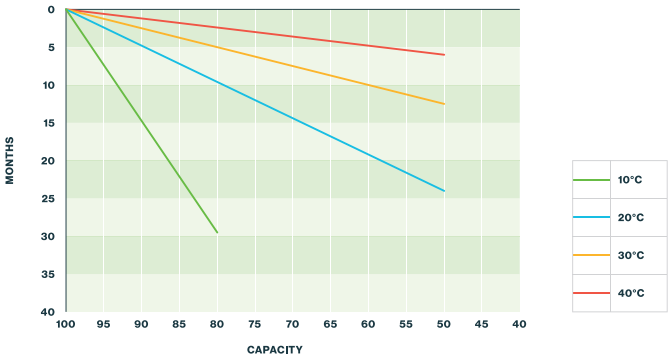
Compliant with - IEC60254-1

Charging profile

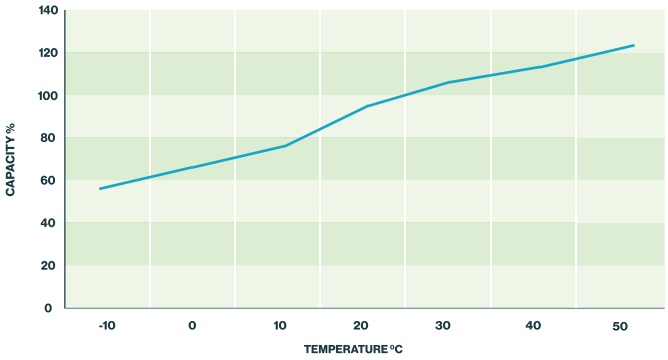
IU Charging
I = min. 12% C_5 max. 18% C_5
U = 2.4 V per cell

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

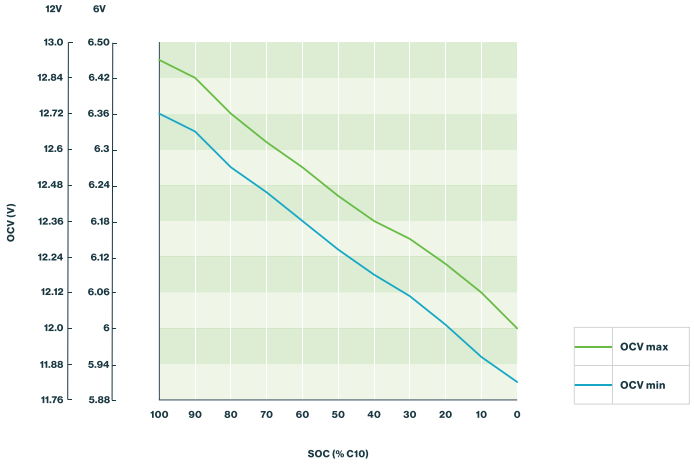
Self discharge at different temperatures



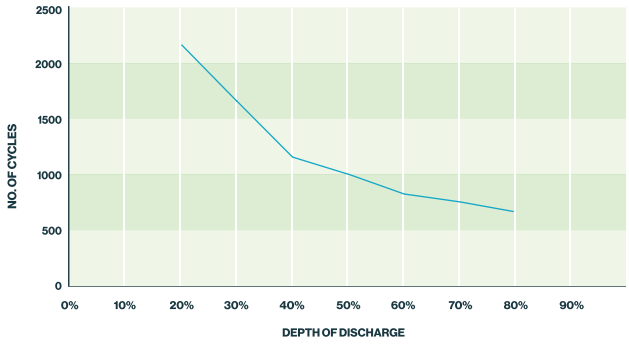
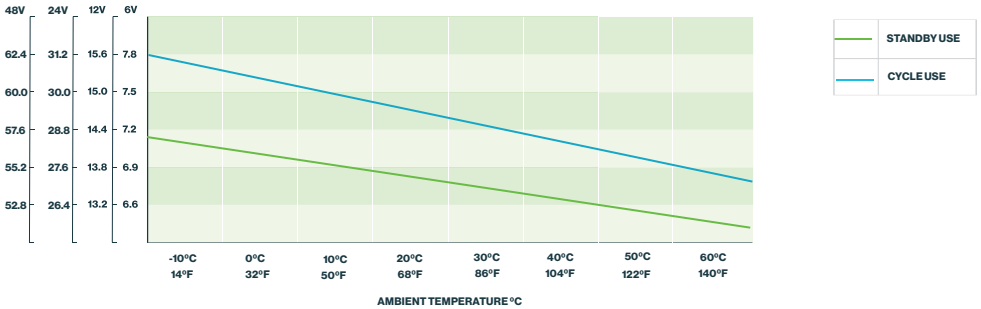
Capacity vs. temperature



Storage: Determine the state of charge



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



Relation between charging, voltage and temperature