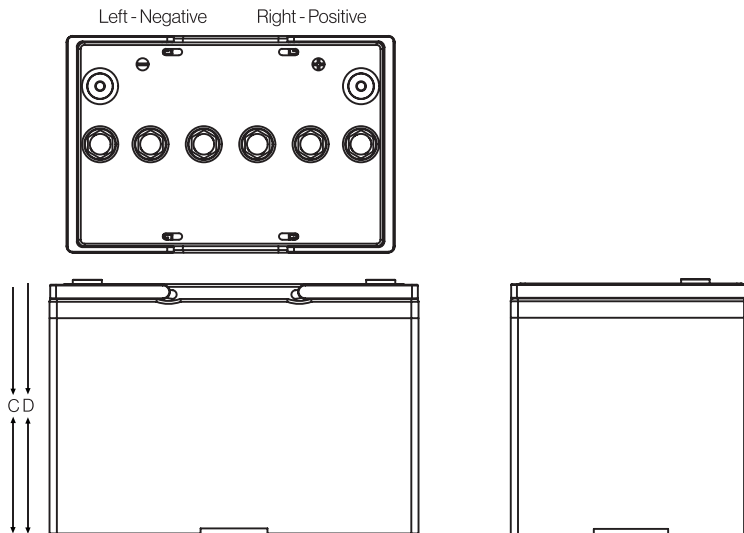


78870 GLOBAL GEL DEEP CYCLE BCI-24(12V80/C20)



General 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)

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

Electric vehicles

Wheelchairs

Cleaning machines

Electric working platforms

Universal for multiple cyclic applications

Compliant with EN60254-1&2 & IEC254-1/2 ISO 7176-25 SAE J1495

Electrical Specifications

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

Amp Hours (AH)					
20HR	10HR	5HR	3HR	2HR	1HR
80	74	71	64	61	60

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

Mechanical Specifications

Industry Reference	24
Length (A)	254 mm
Width (B)	168 mm
Height (C)	202.5 mm
Height (D)	204.5 mm
Weight	25 kgs
Terminal (Opt'l)*	M6
Cell(s)	6
Electrolyte	Gel
Terminal Torque Nm	6

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

* Including A-Terminal

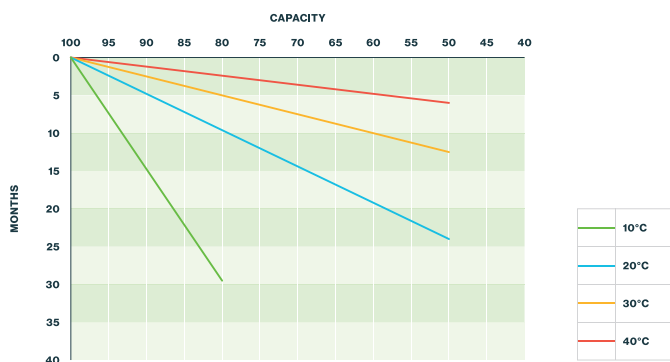
78870 GLOBAL GEL DEEP CYCLE BCI-24(12V80/C20)

Charging profile

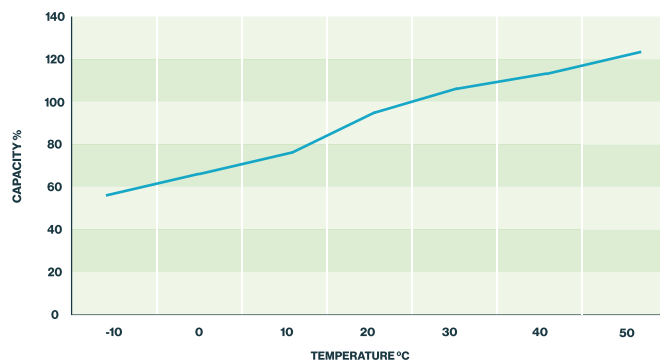
IU Charging I = min. 12% C₅ max. 18% C₅
U = 2.4 V per cell

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

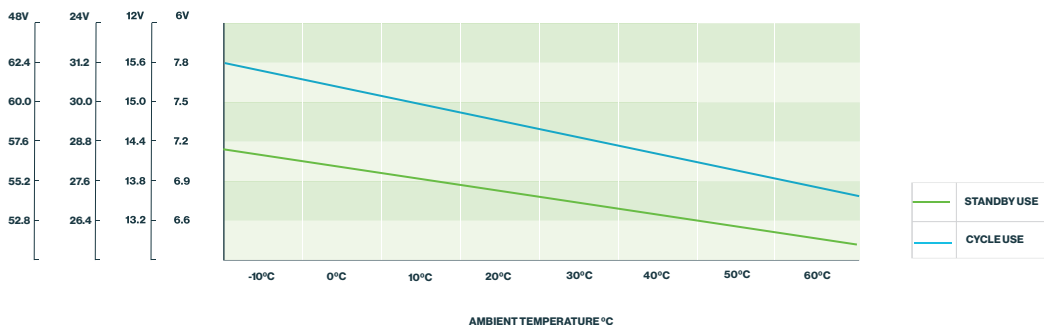
Self discharge at different temperatures



Capacity vs. temperature



Relation between charging, voltage and temperature



Storage: Determine the state of charge

