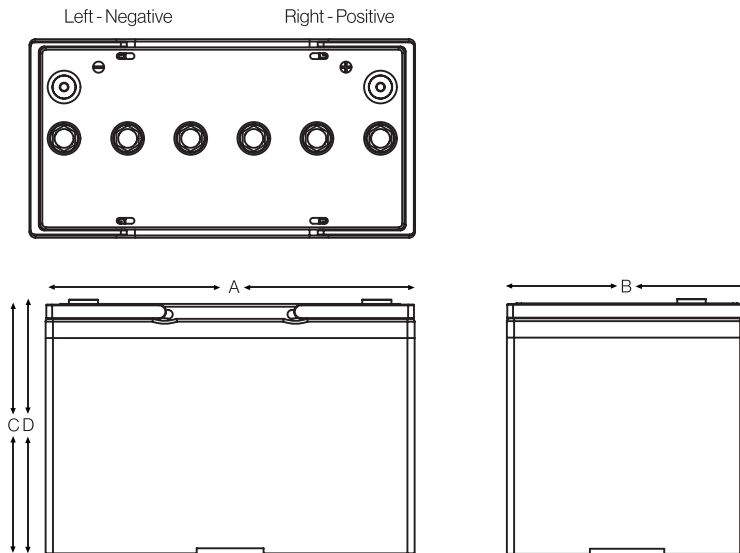


78890 GLOBAL GEL DEEP CYCLE BCI-31(12V94/C20)



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)

Electrical Specifications

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

| Amp Hours (AH) | | | | | |
|----------------|-------|------|------|------|------|
| 20 HR | 10 HR | 5 HR | 3 HR | 2 HR | 1 HR |
| 94 | 88 | 85 | 79 | 74 | 64 |

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

Mechanical Specifications

| | | |
|---------------------------|--------|-----|
| Industry Reference | | 31 |
| Length (A) | 329mm | |
| Width (B) | 170mm | |
| Height (C) | 205mm | |
| Height (D) | 207mm | |
| Weight | 32 kgs | |
| Terminal (Opt'l)* | | M8 |
| Cell(s) | | 6 |
| Electrolyte | | Gel |
| Terminal Torque Nm | | 8 |

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

* Including A-Terminal

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

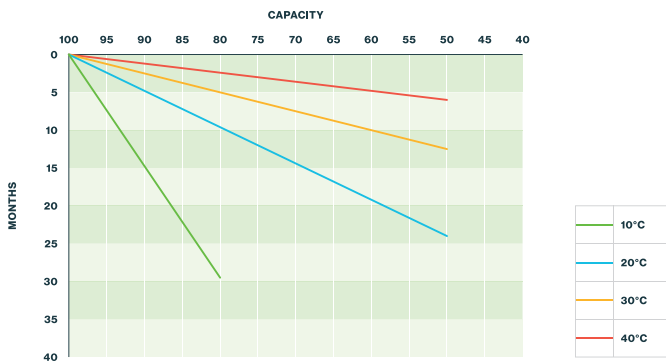
78890 GLOBAL GEL DEEP CYCLE BCI-31(12V94/C20)

Charging profile

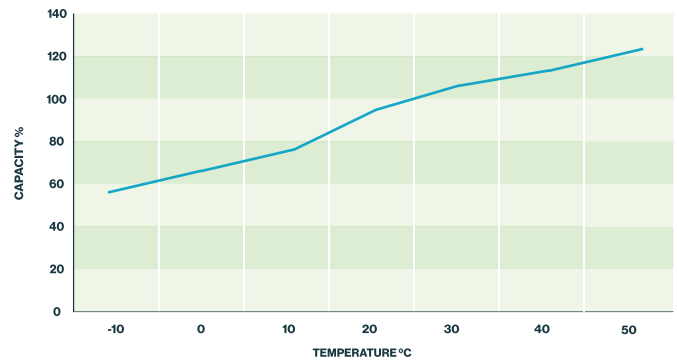
IU Charging I = min. 12% C₅ max. 18% C₅
U = 2.4 V per cell

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

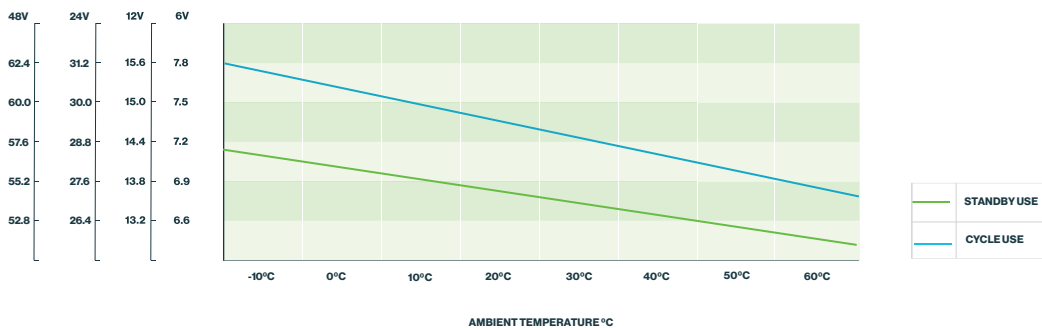
Self discharge at different temperatures



Capacity vs. temperature



Relation between charging, voltage and temperature



Storage: Determine the state of charge

