

BATTERY BOXES BB Range



Valve regulated lead acid batteries are used to support ships essential DC supplies via output circuit breakers. Batteries of various sizes can be selected to meet the user's required load and autonomy time.

Batteries

Valve Regulated Lead Acid
Nominal voltage: 24V
Nominal capacity dependant on autonomy time, typically 5min, 30min or 1hr
Specified lifetime 7-10yrs at 20°C.
Recommended normal operating temperature range 20 to 25degC.

Meters

Analogue or digital meters for output voltage and charge/discharge current

Indications

Battery Available
Discharge
Over Voltage
Low Voltage
H₂ > 1%
ACH on
Earth Fault

Remote Indications

Summary Alarm NO/C/NC Changeover contacts.

Battery monitoring

Extensive battery monitoring: Overvoltage, low voltage, excess hydrogen and short circuit cell detection.

Temperature compensation/remote sense

The battery boxes have the facility for a remote sense connection that can be used for float voltage temperature compensation.



ENVIRONMENTAL CHARACTERISTICS

Shock

15g (25ms half sine). For installed shock levels in excess of this shock mounts should be fitted.

Vibration

Meet shipboard vibration requirements. Typically: 5 to 33Hz +/- 0.125mm

Noise

<60dbA.

Electromagnetic Compatibility.

Equipment designed to comply with the requirements of Def Stan 59-411. Emissions and susceptibility (Below deck limits)

Ambient Temperature.

0°C to + 45°C.

Batteries are temperature dependent. The batteries have been selected for operation at a nominal ambient temperature of 20°C.

Relative Humidity

10% to 95% non-condensing.

All PCBs have a conformal coat to protect against the effects of condensation.

Ingress Protection

IP23- suitable for electrical compartment

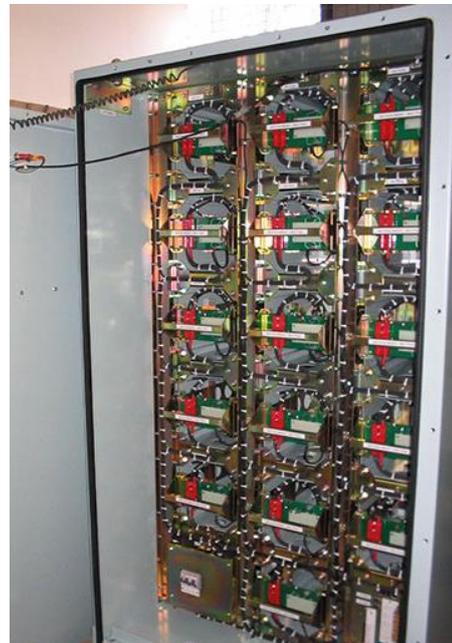
IP44- suitable for machinery space

IP54- fitted with dust filters

Ships Motion

The equipment is designed to withstand, without damage or degradation of performance or spillage of fluids, ship motion due to the action of the sea and weather as well as accelerations and velocities deriving from deliberate ship manoeuvres. Typically

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|--------------------|-------|--------------------|-------|
| Roll angles | ± 30° | Pitch angles | ± 10° |
| Steady list angles | ± 15° | Steady trim angles | ± 5° |



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