

PURCHASE SPECIFICATIONS
FOR
DRY FIT RECHARGEABLE BATTERIES
FOR
OIL RIG APPLICATIONS



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GENERAL SPECIFICATIONS FOR DRY FIT RECHARGEABLE BATTERIES FOR OIL RIG APPLICATIONS

1. SCOPE :

This specification applies to Dry fit lead acid or Nickel cadmium maintenance free rechargeable batteries primarily intended for cyclic applications for indoor industrial / drilling rig use when the ambient temperature does not normally exceed 50 deg C. These batteries shall be used for supplying actuator current during starting (Hands-off start) of Diesel engines in Drilling Oil rigs. As soon as engines starts power is available from the alternator which then charges the batteries and batteries remains in circuit as floating.

2. TECHNICAL DETAILS OF THE BATTERIES:

- 2.1 Rating of the battery shall be 12 V / 7Ah
- 2.2 Maximum discharge current 80 A.
- 2.3 Discharge current for 10 hour should be 6.5 A.
- 2.4 Battery connections shall be suitable for 4.7 x 0.8mm spade type Snap-on terminals
- 2.5 Charging voltage per cell shall be 2.3 /2.5 V and shall have very short recharging time.
- 2.6 Batteries should be maintenance free suitable upto temp of 50 deg C
- 2.7 Batteries should be protected against deep discharge.
- 2.8 Batteries should be provided with a safety vent to prevent gas build up.
- 2.9 Estimated life of the batteries shall not be less than 500 full cycles at 100% capacity.
- 2.10 Batteries should have very low self-discharge rates.
- 2.11 Container of material for batteries shall be ABS or equivalent material
- 2.12 Size of the batteries shall not be more than 151L x 65W x 98H (mm) and weight shall not be more than 3 kg.

3. RECOMMENDED MODELS

YUASA NPL Range of M/s R S Components – Stock No 597-835

Any other makes or model shall be acceptable if technically equivalent model is offered.