

## TECHNICAL DATASHEET

### TOR/BATT/LITE Tornado battery pack

DESCRIPTION	: TOR/BATT/LITE is a lightweight battery pack for use as part of Tornado powered respirator systems.
APPROVALS	: Tornado systems including this battery are approved to European standards EN12941 and EN12942. Also approved with the blower to Intrinsic Safety standards EN50 014 and EN50 020.
COMPATIBILITY	: All Tornado T/Power powered systems, including all headtops and filters.
ELECTRICAL SPECIFICATION	: 4 NiMH (Nickel Metal Hydride) cells, each nominal 1.2V. (total nominal 4.8V). 4,800mAh capacity. 2 x 1 $\Omega$ nominal 20W resistors in series for current limitation.
CONSTRUCTION	: ABS plastic casing, cell pack is encapsulated in medium density polyurethane foam.
DIMENSIONS	: (W x H x D) 14.5 x 6.5 x 7 cm.
WEIGHT	: 465 gram.
STORAGE	: 0 - 35°C recommended temperature range. Must be stored in a clean, dry environment.
SHELF LIFE	: Approximately 18 months in recommended storage conditions. After this the battery will take progressively more charging cycles to get up to capacity.
SERVICE LIFE	: Approximately 500 cycles provided recommended charging, use and storage regimes are maintained.
DURATION	: 7.5 to 8 hours from fully charged, depending on filter and headtop fitted.
RECHARGE TIME	: 6 hours from fully discharged.
CHARGING	<ul style="list-style-type: none"><li>• The battery must be charged in a clean, dry, well ventilated environment.</li><li>• Charging must not be carried out where there is any possibility of the presence of an explosive atmosphere (e.g. in EX zones)</li><li>• The Tornado TOR/BC/SM smartcharger must be used. Use of any other charger may damage the battery and will invalidate the warranty</li><li>• Charging should only be carried out if the temperature is in the region of 0 to 35°C.</li><li>• A new battery may take 3 or so recharge cycles to reach its full stated capacity.</li><li>• There is no memory effect and no need to discharge before recharge.</li></ul>
DISPOSAL	: Battery cells contain nickel. Cells must be disposed of in accordance with national regulations for batteries. Do not incinerate as they will explode. ABS casing is recyclable.