



## TUBULAR FLEX LEAD ACID BATTERIES

- ▶ All Triathlon® lead acid batteries are of the proven European Tubular design with flexible, bolt-on inter-cell connectors.
- ▶ Easy terminal cable and cell replacement using a torque wrench - no flame required.
- ▶ Greater durability and flexibility on uneven flooring.
- ▶ Improved safety with "built-in" shrouds.
- ▶ QR Code Data Card attached to every battery for easy battery identification.
- ▶ Spiral bound cable protectors keep the cables from getting cut or damaged.
- ▶ Color coded positive and negative terminations for easily recognizable polarity.
- ▶ Individual cell voltages can be taken without removal of any shrouds or exposure to lead.




Tubular Flex AQ	Tubular Flex EC	Tubular Flex EURO	Tubular Flex AIRE
<ul style="list-style-type: none"> <li>▶ AQ = AQUAsave - Considerably reduced watering intervals (30-90 days) depending on charge profile.</li> <li>▶ Greatly reduces watering maintenance costs over the service life of the battery.</li> <li>▶ Available in standard US cells sizes:                             <ul style="list-style-type: none"> <li>• 90 Ah with 21.73" height</li> <li>• 100 Ah with 24.68" height</li> <li>• 125 Ah with 29.49" height</li> </ul> </li> <li>▶ Also available in standard DIN and BS cells sizes.</li> <li>▶ Includes all features noted above for Tubular Flex Lead Acid Batteries.</li> </ul>	<ul style="list-style-type: none"> <li>▶ EC = Enhanced Capacity - Experience longer run times with more available capacity in the standard cell sizes due to tubular plate technology.</li> <li>▶ Available in standard US cells sizes:                             <ul style="list-style-type: none"> <li>• 100 Ah with 21.73" height</li> <li>• 140 Ah with 29.49" height</li> </ul> </li> <li>▶ Standard specific gravities for long life.</li> <li>▶ Includes all features noted above for Tubular Flex Lead Acid Batteries.</li> </ul>	<ul style="list-style-type: none"> <li>▶ European standard DIN and BS batteries now easily available in North America.                             <ul style="list-style-type: none"> <li>• DIN = German Industrial Standard</li> <li>• BS = British Standard</li> </ul> </li> <li>▶ Longer run times due to maximized battery capacity of your European designed lift truck compartment.</li> <li>▶ Also available in adequate and Gel (Valve Regulated Lead Acid).</li> <li>▶ Includes all features noted above for Tubular Flex Lead Acid Batteries.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Prevents acid stratification by using air bubbles to mix the electrolyte throughout the charging process.</li> <li>▶ Reduces energy and water consumption - charge factor goes from up to 1.20 to 1.05 - 1.07</li> <li>▶ Extends service life by reducing chemical stress and temperature increases during charge.</li> <li>▶ Enhances battery performance in opportunity charge applications when the gassing point is not reached on each charge.</li> <li>▶ Speeds up the charging process.</li> <li>▶ Requires a TriCOM® charger with an integrated air pump to circulate air into each of the batteries cells .</li> </ul>

## LITHIUM-ION BATTERY SYSTEMS

Lithium-ion Battery	Battery System Specifications	TriCOM® Ion Charger
	<ul style="list-style-type: none"> <li>▶ Rated Voltages: 24, 36, 48, 72, 80 volt</li> <li>▶ Available battery system energy content: 1.2 to 138 kWh</li> <li>▶ Available capacities: 52 to 1716 Ah</li> <li>▶ Discharging temperature range: -18°F to + 131°F</li> <li>▶ Charging temperature range: -18°F to + 131°F</li> <li>▶ Storage temperature range: - 4°F to + 113°F</li> <li>▶ Charge factor: 1.01 to 1.03</li> </ul>	
	Battery System Advantages	TriCOM® Ion Specifications
	<ul style="list-style-type: none"> <li>▶ Recharge in 1 to 2 hours.</li> <li>▶ No battery change outs and therefore no special battery handling equipment needed.</li> <li>▶ No gassing and therefore no explosion hazard.</li> <li>▶ No exposure to acid.</li> <li>▶ Higher productivity due to fast and opportunity charging.</li> <li>▶ No maintenance - it does not have to be topped off with water.</li> <li>▶ No need for centralized battery rooms with expensive ventilation systems.</li> <li>▶ Significantly reduced Total Cost of Ownership.</li> <li>▶ Excellent for 24/7 operations including cold storage.</li> <li>▶ Detailed operational reporting.</li> </ul>	<ul style="list-style-type: none"> <li>▶ Voltages: 24 to 80 volt</li> <li>▶ Available charging power:                             <ul style="list-style-type: none"> <li>• 1.4 to 36 kW</li> </ul> </li> <li>▶ Available charging currents:                             <ul style="list-style-type: none"> <li>• 50 to 400 ampere</li> </ul> </li> <li>▶ Efficiency: 95 to 97 %</li> <li>▶ The Triathlon® Lithium Ion Battery controls the charger through CAN communication to assure the perfect charge.</li> <li>▶ Decentralized charging to be located at work or break areas.</li> </ul>

# TRICOM® CHARGERS FOR LEAD ACID BATTERIES

TriCOM® Futur	Specifications	Features
	<ul style="list-style-type: none"> <li>▶ Voltages: 24 to 80 volt</li> <li>▶ Available charging power:                             <ul style="list-style-type: none"> <li>• 1.4 to 36 kW</li> </ul> </li> <li>▶ Available charging currents:                             <ul style="list-style-type: none"> <li>• 50 to 400 ampere</li> </ul> </li> <li>▶ Efficiency: 95 to 97 %</li> </ul>	<ul style="list-style-type: none"> <li>▶ First Full Resonant High Frequency Charger with SR-Switching Technology (Soft Resonant).</li> <li>▶ Loss free "Soft-Resonant-Switching" throughout complete charge cycle.</li> <li>▶ Cool operation with active heatsink cooling and passive electronics cooling.</li> <li>▶ Intelligent charging will reduce output if temperatures are rising too quickly but will not cut off the charge.</li> <li>▶ Innovative module system for quick and easy repair.</li> <li>▶ Blue Blacklight Touch Screen display for ease of use and flexibility with 32 preset charge settings.</li> <li>▶ Multi-voltage and multi-capacity battery charging.</li> </ul>

## LEAD ACID ACCESSORIES

AQUAmatic	AQUAtank	AQUtrolley	AQUAcontrol
			
<p>Single point watering systems for quick and reliable filling of your lead acid batteries.</p>	<p>Gravity fed water storage tank for the filling of industrial batteries.</p>	<p>Watering cart for onesite portable filling of industrial batteries with deionized water.</p>	<p>Electrolyte level sensor for monitoring and displaying the electrolyte level of the battery.</p>
icon Battery Guard 4.0	Accessories	HELUX	Swivel Boom
			
<p>For monitoring and controlling the operating conditions of your battery and charger.</p>	<p>Special connectors, pole terminals, terminal adapters, plugs, maintenance kits, maintenance poster, digital current clamp multimeter.</p>	<p>The lifting beams can be adjusted and used universally. Maximum safety is ensured by standardized load hooks. Lifting beams allow for vertical lifting and thus protect the battery and the tray from undue strain and force.</p>	
Charger Stand	Cable Retractor	Dual Charger Stand Kit	Magnetic Cable Mount
			

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