



HAWKER

Water Less®

HAWKER

evolution®

HAWKER

perfect plus®

NexSys®
TPPL

NEXSYS® TPPL, EVOLUTION AND FLOODED **ATEX CERTIFIED BATTERY RANGES**

NexSys® TPPL and our flooded battery ranges, certified to ATEX standards are a specialist range of motive power batteries using a battery container designed and certified for use in Zone areas where flammable gas or dust may occur.

- Explosion (Ex) group I Category M2/Mb mining
- Explosion group II Category 2 and 3 [Zone 1 2G/Gb, Zone 2 3G/Gc (Gas)]
- Explosion group III Category 2 and 3 [Zone 21 2D/Db, Zone 22 3D/Dc (Dust)]

They are designed to power electrical material handling equipment working in hazardous areas (potentially explosive atmospheres). The new compact design of the battery container permits the O.E. manufacturers recommended maximum capacity cells to be fitted, thus eliminating the previous necessity of reduced capacity and working patterns noted with alternative designs.



TRACTION BATTERY TECHNOLOGY

FEATURES AND BENEFITS

- ATEX certified batteries are available in the following ranges:
 - Perfect Plus™ DIN / BS (flooded)
 - Water Less® (flooded low maintenance)*
 - Evolution® (maintenance-free, gel)
 - NexSys® TPPL (maintenance-free)
- New container design now allows capacities used in non-explosive (non-Ex) applications
- Screw flexible terminal connections for easy maintenance
- Available in both DIN and BS series
- Specially designed ventilation prevents hydrogen concentrations
- ATEX certified Perfect Plus™ and Water Less® batteries can be fitted with automatic topping up system (aquamatic)
- Battery changing accomplished by utilising DIN standard lifting holes (alternative available)
- Batteries comply with ATEX Directive 2014/34/EU
- These batteries can be manufactured in one or several crates; each being considered as an independent battery with certification plate
- The crate is equipped with a lid ensuring an IP23 protection and includes ventilation slots
- This ventilation is designed to keep hydrogen concentrations below 2%, thereby conforming to the EN 60079-7 standard
- The crate is covered with a hermetic insulated coating giving a high level of electrical and chemical resistance especially suitable for intensive use with opportunity charging
- Benefit from longer maintenance intervals and lower overall maintenance costs



STANDARD

- Our complete ATEX certified battery ranges carry the type certifications I M2 Ex eb I, II 2G Ex eb IICT6 and II 2D Ex tb IICT85°C. They are manufactured and designed to EN 60079-0: 2018, EN 60079-7: 2015 standards
- They are homologated by CSA / Sira
- The cells and terminals comply with IP65 and the crate – with IP23 – vital for use within zone 21 and 22 dust atmosphere
- The ATEX certified battery range conforms to the relevant provision of Directive 2014/34/EU. Conformity has been demonstrated with reference to the following documentation:

EC type-examination certificates:

ATEX	IECEX	UKEX	Description
SIRA 01ATEX3016U	SIRA IECEX 07.0061U	–	Flooded BS cell
SIRA 01ATEX3019U	SIRA IECEX 07.0062U	–	Flooded DIN cell
SIRA 01ATEX3022 X	Sira IECEX 07.0065X	CSAE 23UKEX1000X	Batt. up to 68.8 KWh
Sira 01ATEX 3025X*	Sira IECEX 07.0066X	CSAE 23UKEX1001X	Batt. 68.8 KWh up to 153.6 KWh
SIRA 03ATEX3087U	SIRA IECEX 07.0063U	–	BS Gel cells
SIRA 03ATEX3090U	SIRA IECEX 07.0064U	–	DIN Gel, NXS cells

* Not for NexSys TPPL Batteries

ATEX certifications apply to the EEC. IECEX certificates apply to the rest of the world except North America (USA and Canada).

Quality Assurance Notification: Sira 01 ATEX M103

APPLICATION FLEXIBILITY

IDEAL APPLICATIONS

The certified battery can be used in various applications:

- Mining (M2)
- Factories using flammable powders
- Oil refineries, storage depots of hydrocarbons
- Aerosol can filling and storage
- Distilleries
- Paint making factories
- Perfumes, cosmetic factories
- Explosion group I Category M2
- Explosion group II / III Category 2
 - Zone 1 and 2 (Gas)
 - Zone 21 and 22 (Dust)
- Explosion group II / III Category 3
 - Zone 2 (Gas)
 - Zone 22 (Dust)

BATTERY SIZE

Special features within the battery container have eliminated the need to produce batteries of lower ampere-hour capacities to accommodate the extra space required to maximise ventilation. ATEX certified batteries give the same capacity for use in explosive (Ex) operations as those recommended by truck manufacturers for nonhazardous applications. Battery voltages are available up to 400 V.

ACCESSORIES OR OPTIONS

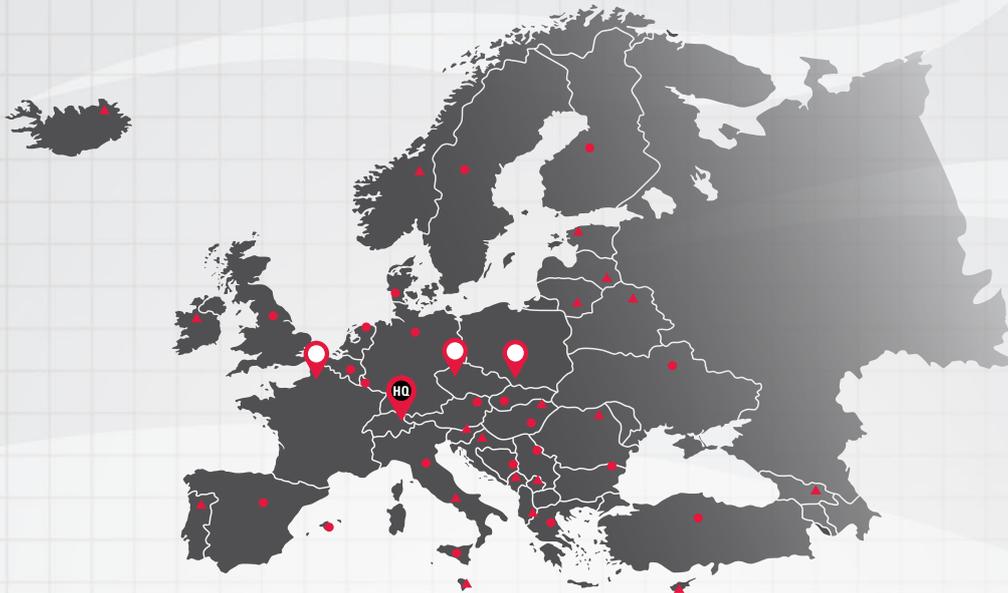
Single point filling system for ATEX certified Perfect Plus™ and Water Less® batteries: to achieve optimal battery life and performance, electrolyte levels in each cell need to be maintained by the periodic addition of demineralised water. The aquamatic battery filling system can be fitted to this new design, this option was not available on previous Zoned battery designs.

Electrolyte mixing: (available as an option on Perfect Plus™ and Water Less® battery ranges). The electrolyte circulation system, using the AirLift principle, consists of a pipe system which is fitted in the cells. A diaphragm pump sends a low rate airflow into the cell which creates a circulating air stream inside the cell box. This system prevents electrolyte stratification and the battery charging is optimised.

Optional: the battery/charger plugs are manufactured to the same exacting standards as the batteries. Certified plugs offer protection when operating in Ex hazardous areas. They have been designed and constructed to accept a wide range of cables. All cabling must be fed with flameproof Ex d gland entries.



OUR SOLUTIONS PUT TOTAL POWER IN MOTION FOR YOUR BUSINESS



● EnerSys® Direct ▲ EnerSys® Partner HQ EnerSys® EMEA Headquarters 📍 EnerSys® Motive Power Production

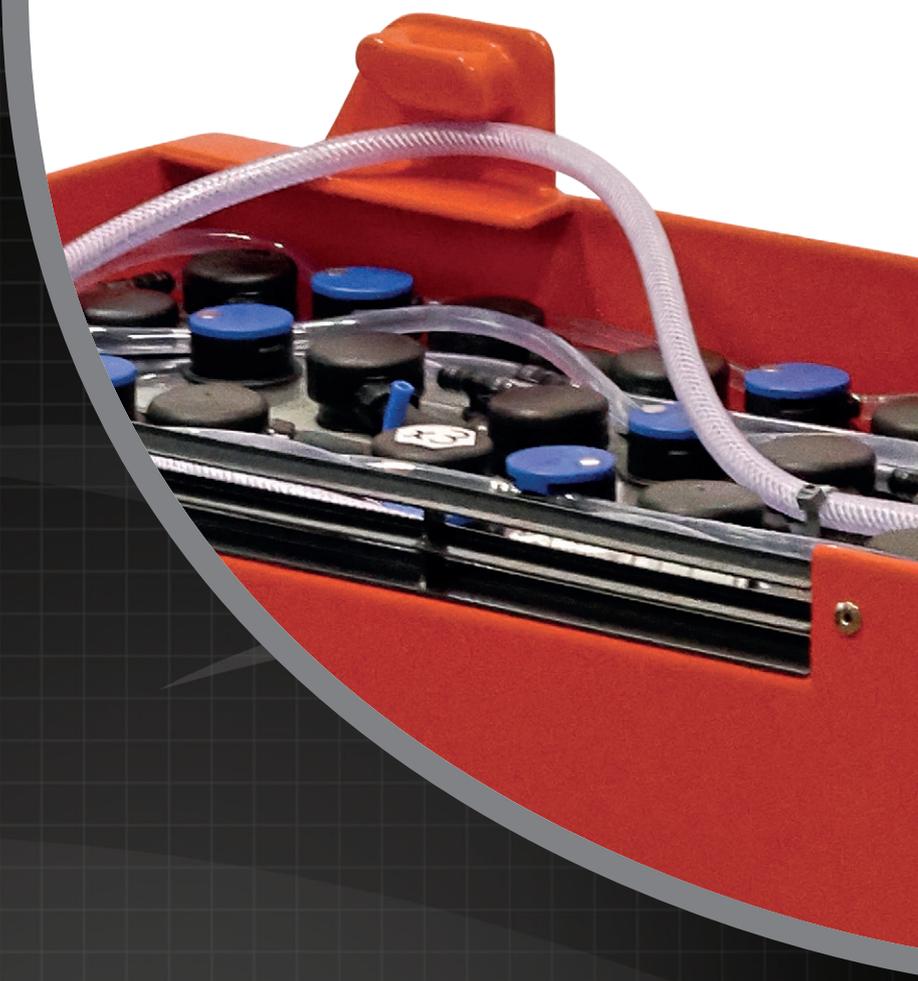
EnerSys® is the global leader in stored energy solutions for industrial applications and designs, manufactures, and distributes energy systems solutions and motive power batteries, specialty batteries, battery chargers, power equipment, battery accessories and outdoor equipment enclosure solutions to customers worldwide.

EnerSys® Motive Power solutions form a complete, turnkey power system to make your operations more productive and profitable. Motive Power batteries and chargers are utilized in electric forklift trucks and other industrial electric powered vehicles requiring stored energy solutions.

EnerSys® also provides aftermarket and customer support services to its customers in over 100 countries through its sales and manufacturing locations around the world.

Wherever you are in Europe, EnerSys® is within reach and ready to support your fleet with 40+ Service locations.

- 24/7 coverage from 150+ authorized service technicians
- Tailored service contracts to your requirements
- Proactive cloud-based monitoring and real-time service scheduling
- Comprehensive maintenance reporting and monitoring plans



SERVICE AND SUPPORT

Our battery support services range from system design, installation and certification to testing, maintenance and repair.



Our comprehensive recycling support program accepts lead acid batteries of all sizes, from all manufacturers.



BATTERY MONITORING

Our advanced tools and technologies deliver actionable intelligence to optimize battery maintenance and operation.



World Headquarters

2366 Bernville Road
Reading, PA 19605
USA
+1-610-208-1991 / +1-800-538-3627

EnerSys EMEA

EH Europe GmbH
Baarerstrasse 18
6300 Zug, Switzerland
Tel: +41 44 215 74 10

EnerSys APAC

No. 85,
Tuas Avenue 1
Singapore 639518
+65 6558 7333

www.enersys.com