

TRIATHLON

a Sunlight Group company

PRODUCT
CATALOGUE 2024



SUNLIGHT
POWER IS KNOWLEDGE

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Providing Energy for a World in Motion



USA Footprint

GREENSBORO, NC

Covered area
100,000ft²

MEBANE, NC

Covered area
135,000ft²

LEWISVILLE, TX

Covered area
90,000ft²

Global Presence

Facilities
worldwide

35⁺ 

Cells
capacity

6mil 

Battery
technologies

3  
 

R&D
hubs

5 



Power to Move



TRIATHLON®
TC Series

High demands of toughest industrial use. The premium choice for heavy duty applications



Modular Design

for high variances and easy conversion for 2nd life applications



High Efficiency

Charging factor less than 1.03



Suitable for Coldstore

Winter outdoor applications

Applications



Forklifts



Floor cleaning equipment



Material handling equipment



Automated guided vehicles (AGVs)



Aerial work platforms

TRIATHLON lithium-ion battery systems are designed to meet the high demands of tough industrial use. A complete system consists of Li-ion modules of intelligent monitoring and control electronics, various safety components and an HF fast charger.



Voltage range:
24-120V



Data logger & report
function via USB



Capacity from 74 to 2,368 Ah
in 74 Ah steps



Continuous charging current
up to 800A



A revolutionary “smart” battery solution developed to exceed customer needs on a product, safety, and communication level



Preventive maintenance

Remote access and service capabilities via Sunlight IoT platforms (Sunlight GLocal)



Parallel Battery Topology

Uninterrupted battery operations via remote isolation of potential inactive modules through Sunlight GLocal



High return on investment

Maintenance-free and battery usage optimization, free after-sales support during the warranty

Incorporating years of success in design, innovation, and production of lithium-ion batteries for advanced applications, the Sunlight Li.ON FORCE product range delivers premium safety, high efficiency, and long life. Ideal across a wide range of industries, in particular industrial mobility.



Fast opportunity charging



Active balancing



Stable performance under harsh operating conditions



Battery protection & energy efficiency



Charging time: 1~1,5h – 3 shift operation



24/7 operability & serviceability via Sunlight GLocal

Applications



Forklifts



Automated guided vehicles (AGVs)



Floor cleaning equipment



Aerial work platforms

COMING SOON



SUNLIGHT
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Li.ONFORCE Lite

Light and durable. A perfect fit for your Class III applications



Compact design and easy installation

Narrow width to fit most Class III compartments and no need for lifting machinery



SoC indicator

Easy monitoring of the battery State of Charge without opening the battery compartment



Scalable parallel connections

Multiple parallel connections capability, which increases the capacity of the battery system

Class III Applications



Lightweight and standardized lithium-ion battery designed for all Class III vehicles

Lithium-ion battery designed with a robust construction to withstand mechanical and chemical strains for Class III vehicle.



Fast and opportunity charging (1-1.5h)



Protection of cells and battery



Resistant to mechanical and chemical strains



Small size for best fitting



Fully certified batteries according to UN / DOT 38.3, CE



Maintenance-free

COMING SOON

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Li.ONFORCE Lite
PACK



Designed to provide premium power and lifespan, without a premium price tag



On-board-plug-in fast charger

45A built-in-charger for an optimized charge profile. Effortlessly connects to a standard 110 outlet, ensuring convenient and efficient charging.



Battery-truck constant connection

Narrow width to fit most Class III compartments



12-90-5 replacement

Battery, charger and requires ballast included

The Lithium Iron phosphate (LFP) battery chemistry is the ultimate choice to last the grueling demands of the workday.

Class III Applications



Cloud access Remote connection and bi-directional communication



BMS
Critical parameters monitoring and protection



LFP chemistry
Long lasting twice as long as lead-acid



Maintenance free
Minimize downtime and labor costs with the maintenance free design



A proven solution and nearly “maintenance-free” battery with excellent performance for traction applications



Tubular plate

Excellent interface, higher power density, high tensile strength, corrosion resistance



Red lead

99,99% pure lead for extended service life and full capacity within the first 3-5 cycles



Bottom bar

Ultrasonically welded with gauntlets, an advanced design bottom bar provides space for the unavoidable spine growth during operation

Applications



Forklifts



Floor cleaning equipment



Electric pallet jacks



Lifting platforms



Automated guided vehicles (AGVs)

Sunlight and Triathlon tubular plates design allows up to 135% more water than standard flooded lead-acid batteries and only requires watering once every 30 to 60 days, depending on application.

The bolt-on intercell design reduces the time required to change out a cell vs a weld on design by at least 30 minutes and is inherently safer.



Enveloped separator preventing short-circuits



High performance & high-power density



Fully recyclable product, circular economy enabler



Reliability and long service life



Maintenance-free sealed-type GEL battery ideal for critical environments



Operational flexibility

Minimum gas emissions and ventilation requirements



Sustained performance

GEL electrolyte eliminates acid stratification



Maintenance-free

Sealed type battery, no water topping up is required through the entire lifetime

Sunlight MotionGel and Triathlon TPzV series are a proven VRLA (Valve Regulated Lead-Acid) solution to minimize operating costs & maximize operational safety for industrial mobility.

Supreme solution for hygiene-sensitive product storage facilities with limited charging space or where maintenance is difficult. GEL electrolyte prevents acid stratification during daily charge-discharge operation prolonging the battery's life time.

Applications



Forklifts



Floor cleaning equipment



Electric pallet jacks



Lifting platforms



Automated guided vehicles (AGVs)



Minimum gas emissions



No water topping up required



99,99% pure lead for extended service life



Fully recyclable product, circular economy enabler



arrestor for increased safety



An ideal choice for operations under extreme conditions



Productivity

One XtremeForce battery can replace two conventional lead-acid batteries



High performance

By using a copper grid in the negative plates, we achieve reduced internal resistance



Operation under extreme temperatures

Cold storage, outdoor applications and seasonal business with high activity peaks

Applications



Forklifts



Floor cleaning equipment



Electric pallet jacks



Lifting platforms



Automated guided vehicles (AGVs)

Sunlight XtremeForce and Triathlon More Power product range, based on CSM (Copper Stretch Metal) technology, are able to operate under extreme conditions, offering high energy density for demanding and heavy-duty applications.

They can offer longer operating time through higher energy content as well as faster & opportunity charging through reduced internal resistance, helping to increase productivity.



Fast / Opportunity charging



Multiple shift operations



High energy density
(heavy duty applications)



Fully recyclable product,
circular economy enabler

Helping you explore sustainable life experiences



ElectroLiFe GC2 for golf cart

High-quality plug & play lithium-ion battery with capabilities beyond traditional ways

ElectroLiFe GROUP 49 for caravan and mobile homes

Designed for outdoor enthusiasts with limitless reliable power that will travel you to unexplored places and escape to nature





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ElectroLiFe

series GC2 and Group49

High-quality plug & play lithium-ion batteries for semi-traction applications



High return on investment

Maintenance-free and battery usage optimization, free after-sales support during the warranty



High performance

Innovative BMS providing energy savings & extended life cycle



Parallel connections kit

Ultimate protection during installation & operation

Applications



Floor cleaning equipment



Material handling equipment



Aerial work platforms



Recreational vehicles



Marine use



Golf carts

Sunlight ElectroLiFe creates a unique customer experience with user-friendly features and accessories. With a plug & play, tool-less installation with press-to-release terminals offering full protection and ultimate safety during connection of batteries and operation.



Plug & play installation



SoC indicator on the dashboard



Scalable parallel connection



Complete voltage range
25.6V – 38.4V – 51.2V



Traction batteries GEL technology for industrial cleaning machines



Maintenance-free



Sealed lead acid
batteries in gel
technology



Deep-discharge-proof

Your cleaning machine should always be ready for use in order to cope with the daily tasks. Machine downtime or complete failure significantly restrict the workflow and cause unplanned costs.

Depending on your individual application, you can choose from various the GEL, AGM and Conventional (wet) battery technologies.



Recyclable

Applications



Floor cleaning
equipment



Lifting platforms



Forklifts



Power to charge

Sunlight PowerBox Chargers - Product Families



SLC Series

50Hz/Conventional Chargers



Options for charging profiles
(Wa profile 10-12h / Pulse
profile 7-8h)

US version of conventional
chargers with UL certification

High quality materials for high
durability and performance

User Interface with 3 status
Leds

Optimized charging profiles for
Sunlight Batteries

LLC fully controlled pcb board

SLH Series

HF (High Frequency) Chargers



Selectable charging profiles
(Up to 10 different options)

Lithium-Ion available models

Energy-efficient (efficiency
up to 95%)

US version available with UL
certification (selected models)

Optimized charging profiles for
Sunlight Batteries

Multifunctional LCD that
displays the charging profile in
real time with 4 status LED

Lithium Chargers



Fast charging systems of the TriCOM ion series are the ideal complement for the
5-Star Li-Ion TC-Range



Power & voltage downward
compatible (24 to 80 V)



Maximum Power for heavy
duty appl. : Up to 800A
charging current possible



Modular design: power
scalable in 50A steps



Efficiency Champion:
Up to 97 % efficiency!



Power to Manage



Energy Management Solution

MD LOADManagement considerably reduces high peak demand through intelligent load management. Ensures optimum availability of your fleet while at the same time significantly reduces available mains connection power requirements.



Helps avoiding
high infrastructural costs



Enables
highest fleet availability



Significant
operational cost savings through
reduced capacity price

The innovative MD LOADmanagement enables smart energy management aiming at a significant reduction of the grid connection capacity.

An intelligent real-time algorithm controls the individual chargers and optimizes the power or current output.



Mapping of charging stations for
electric trucks and cars possible



Live view of individual
chargers & SoC via TriVIEW



Integration of PV systems
and stationary storage
possible as energy sources



Power to Connect

As a technology-agnostic company, we combine data-driven insights and Industry 4.0 tools, such as cloud computing and analytics, AI and Machine Learning. We participate actively in the digital transformation journey of your business, offering technological solutions, optimizing processes, and adding new capabilities in your operation cycles.

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KnoWi

Sunlight KnoWi transforms big data into actionable intelligence and revolutionizes the way we power the world



Real-time monitoring: Integration and connection to Sunlight GLocal



Live alarms: Pro-actively amend procedures avoiding unnoticed threats that would reduce your battery performance and lifespan



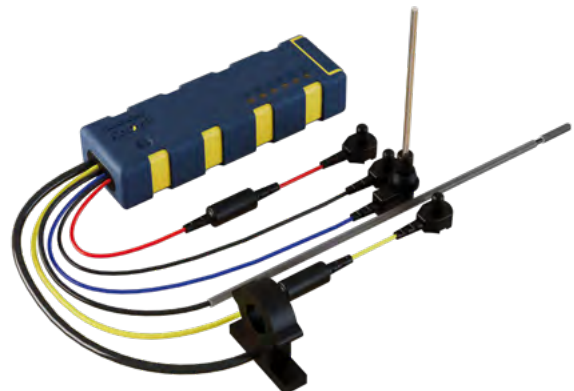
Li-ion transition: Our AI and Machine Learning algorithms developed for our Lithium calculator in Sunlight Glocal, enables you to make data-driven decisions for your application based on battery and forklift usage, and evaluate a switch to lithium batteries



Sunlight GLocal integration: Data logged from KnoWi are automatically uploaded in Sunlight's cloud platform. GLocal is a user-friendly application that encompasses all your Sunlight Lead-acid and Lithium-ion battery data in a single platform



Cost control: Make confident and data-driven decisions and achieve high productivity while protecting your investment and equipment



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GLocal
Battery Intelligence

The smart cloud-based platform for Sunlight lithium-ion batteries



Real-time monitoring: Monitor your batteries and forklift fleet status from anywhere in the world



Remote serviceability: Remote troubleshooting for service cost optimization. Up to 90% of issues repaired via GLocal



Live alarms: Early warning signs to avoid battery failure and lost productivity



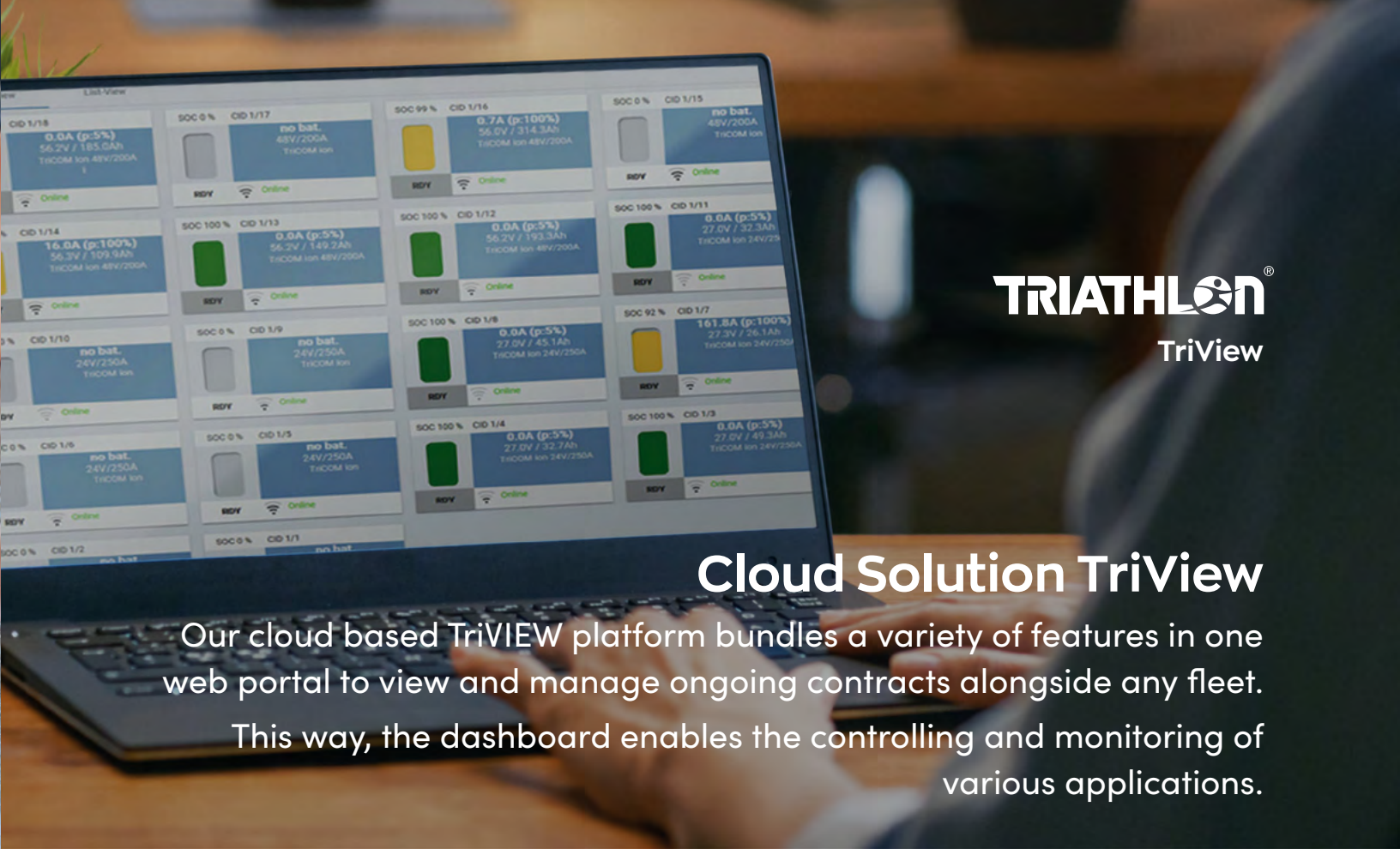
User-friendly: Easy and enhanced communication. Effective fleet management. Enhanced productivity



Preventive maintenance: Uninterrupted operations via 24/7 battery monitoring, real-time notifications and instant intervention



Data capture & analytics: Optimizing battery performance and lifespan for your systems/ fleet



Cloud Solution TriView

Our cloud based TriVIEW platform bundles a variety of features in one web portal to view and manage ongoing contracts alongside any fleet. This way, the dashboard enables the controlling and monitoring of various applications.



Overview on the complete fleet



Maintenance interval overview



Cloud-based data storage



Minimizing energy & investment costs



View & order service jobs



Statistics-based analysis & management tools



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