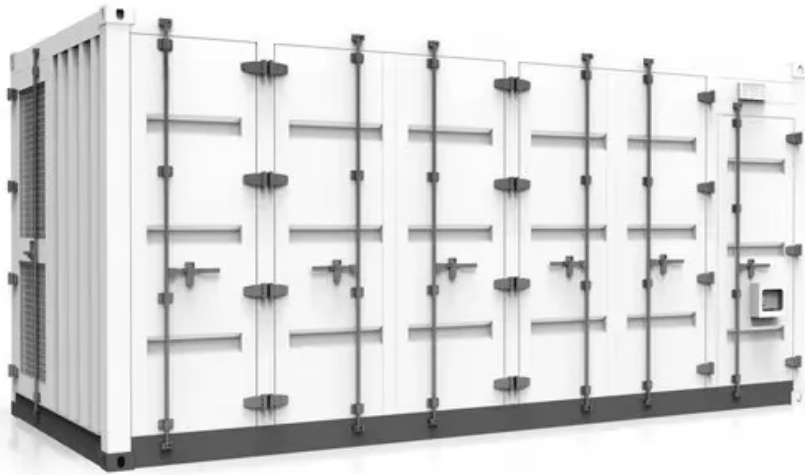


## European Solar Energy Storage

# Indonesia cleantron battery



## Overview

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What type of battery does cleantron use?

Cleantron can supply a low or high voltage battery to match the power train in question and performance requirements. There is also a choice of batteries with different chemical compositions in line with their use, especially LFP and LTO (low voltage) and NMC and NCA (high voltage).

What is a cleantron battery management unit (BMU)?

The Cleantron Battery Management Unit (BMU) is a central processing, protection and control unit designed for both low voltage <60VDC and high voltage applications. The BMU is designed to meet safety standards compliance like the ISO26262 and IEC61508 for automotive and industrial applications.

Who is cleantron?

Cleantron, located near Amsterdam is a specialist Producer of Li-ion Battery Modules for Industry 4.0, Light Electric Vehicles and the Automotive Sector. Having developed Cell Sensing Technology and Sense Making Algorithms, Cleantron uses advanced Battery Management Systems for, by example, Cycle-life Extension and Fast Charging.

Is cleantron a certified battery manufacturer?

Cleantron can develop Battery Modules and Battery Packs in compliance with Functional safety (IEC 61508; ISO 13849 and ISO 26262). The Cleantron development and production process is ISO 9001 and ISO 14001 certified. Cleantron is currently applying for IATF 16949. A good question is half the answer.

What is a cleantron P4P?

The Cleantron P4P is a compact Battery Module suitable for numerous Light Electric Vehicles and Industrial applications. The P4P can be used as a portable

Battery Pack (suitable for quick battery exchange or “swapping”) and can be used as a building block for a larger modular system up to 16 modules in parallel (for higher current and capacity).

What is a cleantron integrated system?

This is an integrated system in which one fixed high-power lithium-ion battery and one or more lightweight, portable lithium-ion batteries (for capacity) work intelligently together via a special Cleantron unidirectional DC/DC-converter with no loss of performance (range and capacity).

## Indonesia cleantron battery

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### [Cleantron at The Battery Show 2021](#)

Update: Meet Cleantron on November 30th - December 2nd 2021 at The Battery Show Europe, so you can see Cleantron's latest innovations. Battery Innovations like Fast Charging Solutions, Advanced Battery Modularity and Multi Pack Configurations for Parallel Discharge. Next to that Cleantron will present a new Battery Use Concept called High Power MPC.

### **Cleantron cleantech batteries , LinkedIn**

Cleantron engineers & produces Li-ion Battery Modules and Battery Systems. This for as well Low Voltage (24, 36 & 48V) as High Voltage Systems. Cleantron is located near Amsterdam in the



### **Cleantron at 'E-mobility France - Netherlands'**

Advanced Battery Modularity for the French market. Next Tuesday, February 2nd, @10:20 CET, Cleantron will be present at the online conference for French key players from Bretagne and Pays de la Loire in the e-mobility sector. The presentation is focused on our battery technology allowing new battery usage concepts (i.e. High Power MPC; see Cleantron [...])

## Cleantron will be exhibiting at Autonomy Expo Paris ...

Cleantron is preparing for the Autonomy Mobility World Expo in Paris on March 20-21, 2024, at Porte de Versailles, Pavillon 6. Visit us at the Netherlands Lounge. As Dutch representative, we'll be showcasing our cutting-edge ...



## Tailored LV & HV Lithium-Ion Battery module

Battery Certification Cleantron collaborates with DEKRA in Arnhem, the Netherlands, and other Certifying Bodies in Europe and North America. Dependent upon the application, usage circumstances and geographic ...

## [Cleantech » cleantron](#)

At Cleantron the focus for Battery Management is on advancing the way we understand the Data that is gathered from the Cells. By developing smart algorithms, that understand what is sensed by the sensors in the BMS, the strategy for managing the Battery Cells can be chosen more suitably. These sense making approaches trace back to our extensive



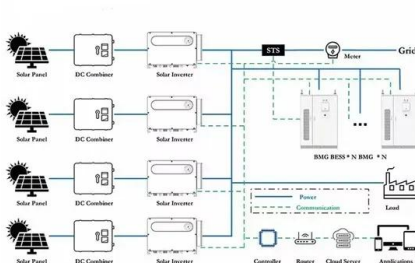
## Optimizing Lifetime and Health for Batteries in the Field

Cleantron's new connected battery pack solution provides remote monitoring of the battery's health, temperature, voltage, current and state of charge data, which are critical for maximizing performance and cycle-life.



## How Cleantron Develops Li-ion Battery Modules? » ...

Cleantron has in-depth experience in designing mechanical structures of Battery Modules for both cylindrical and prismatic cell types. Our design philosophy is ...



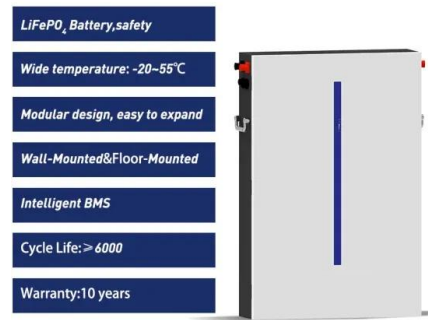
## Cleantron

Cleantron , 1.805 volgers op LinkedIn. Li-ion Battery System for Industry and Mobility. , Cleantron, based in the Netherlands, is a leading developer and producer of Li-ion Battery Modules and Systems. Our ISO-certified production and expertise in mechanical solutions ensure top-quality modules. Cleantron's battery packs are applied across diverse market sectors, including ...

## Battery Systems for Non-road Applications

Join Cleantron at the "5th Annual Electrification & Battery Development for Non-Road Applications Conference" on January 13, 2022. At this online conference, Cleantron will present the latest developments in the area of advanced battery modularity for 48V & High Voltage systems.

Cleantron ® is a Specialist Producer of Li-ion Battery



## Meet Cleantron in Amsterdam

The exhibition, to be held in Amsterdam, the Netherlands, June 21, 22, 23, 2022, is dedicated solely to showcasing the very latest and next-generation electric and hybrid marine battery and electric propulsion technologies and solutions.

## Cleantron 36V 11Ah Li-Ionen Akku Zelltausch bis zu 28Ah Van ...

Wenn die Lithium-Ionen-Zellen deines Cleantron 36V 11Ah Fahrradakkus von Van-Raum verschlissen sind, ist es an der Zeit für einen Zellentausch, um die ursprüngliche Leistung wiederherzustellen. Zusätzlich bietet dieser Zellentausch die Möglichkeit einer Kapazitätserhöhung, was bedeutet, dass du in der Zukunft längere Strecken zurücklegen und ...



## High Power Multi Pack Configuration » cleantron

The portable battery modules weigh less than 10 kg. and can be employed like a laptop. To achieve this low weight Cleantron limits the discharge power, so that lighter wiring and



smaller connectors can be used and deterioration of the battery cells is limited. The portable battery modules are switched in parallel using the Cleantron MPC system.

## Meet Cleantron at the virtual Battery Show

The Battery Show is going virtual for the first time. The exhibition is a leading meeting place for the advanced battery and EV industry. So, meet Cleantron and discuss what you need to create the next great battery application. Get ready and connect with the advanced battery community from 18-20 May, 2021. For more info [...]



## Batteries Certifications based on European Functional ...

Discover Cleantron's Batteries development in compliance with Functional safety; IEC 61508; ISO 13849 / Automotive Applications: ISO 26262. Skip to the content. Search. Cleantron can analyze your battery related problems and develop ...

## Production

Cleantron is a high quality Battery producer with specialized engineering skills. Cleantron develops Batteries to be produced by Cleantron. Alternatively, in some cases (e.g. in the Automotive Sector), we can produce "Build-to-Print" Batteries. This concerns then Battery

Prototypes as well as Series Product for Automotive Niche applications

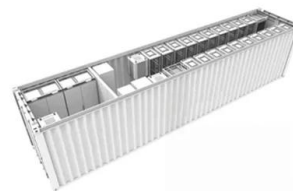


## Exploring Battery Swapping Systems for Urban Mobility » cleantron

Cleantron is facilitating and supporting a major transformation in urban mobility by investigating battery-swapping technologies for small electric vehicles, such as city cars and light motorcycles. The Cleantron CLP is a lightweight and compact Battery Module specifically designed for quick and effortless manual battery exchange, also known as "Battery Swapping". Find out RAI ...

## Cleantron Cleantech Batteries

PGS37-2 sets standards for the safe storage of lithium-ion battery packs. Cleantron, as a leading company in the #European lithium-ion battery pack industry, is committed to providing safe and compliant energy storage solutions. Stay tuned for more updates on how to safely store Lithium-ion batteries. More Information: <https://>



## Circular e-Bike Battery

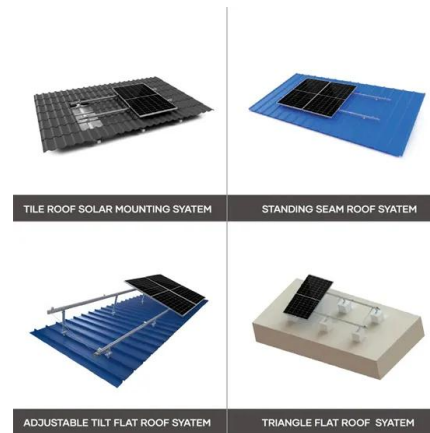
Take your e-Bike to the next level with the Cleantron Circular e-Bike Battery. For more information, please contact us via [info@cleantron](mailto:info@cleantron) or call +31 (0)71 887 60 76. CONTACT US » Cleantron. Pesetaweg 37. 2153 PJ

Nieuw-Vennep. ...



## Lithium-ion Battery Pack Cleantron Frankfurt Motorshow

Cleantron participates at the IAA Frankfurt Motorshow. You can visit Cleantron in Hall 3.1, the New Mobility World. Please note that this futuristic Hall is only open on September 12 and 13 for invitees and open for the general public from 14 -17 September.



Test certification  
 CE FC



## Telit and Cleantron Use IoT to Optimize Battery Lifetime and Health

Telit announced a partnership with Cleantron that provides a turnkey, end-to-end solution for optimizing the performance and cycle-life of Cleantron's battery packs. The partnership is the latest example of how Telit enables solution providers in any vertical—including security, agriculture, retail, health care and more—to quickly and cost-effectively leverage IoT ...

### [Company » cleantron](#)

Cleantron is an independent, family owned, company and a high quality Battery producer with specialized engineering skills. Cleantron develops Batteries with the clear objective to produce the developed Battery designs.

Alternatively, (in some cases e.g. in the Automotive Sector) we are willing to produce "Build-to-Print" Batteries.



## Reliable Li-ion application with high-performance energy

Quick Battery Exchange or Opportunity Charging are the two most effective and common strategies to achieve the highest possible Uptime for an AGV. Cleantron is specialist in (Ultra) Fast Charging and Balancing Algorithms for LTO Cells. Cleantron has a 48V LTO basic Modul available (Cleantron L5), that can be customized to customer specifications.

## Contact

WITH YOUR BATTERY SUPPLIER. Cleantron is located 20 minutes from Schiphol Amsterdam Airport. Home » Contact. Or call us on +31 (0) 71 887 60 76. Netherlands. Cleantron Pesetaweg 37 2153 PJ Nieuw-Vennep The Netherlands +31 (0)71 887 60 76 info@cleantron . France. Philippe Margueron Business Development France 10 Rue Hippolyte Mège



## Cleantron Circular e-Bike Battery

Circular e-Bike Battery Adjustable to your e-Bike design.  
 o Purchase or Sales-by-Subscription (BaaS)  
 o Cleantron Circular Design features: - 10 years guarante



## Cleantron 36V 24,5Ah Midi Maxi Easy E-Bike Akku Zellentausch

\*\*Revitalisierung Ihres Cleantron E-Bike Akkus:  
Ein Schritt Richtung unbegrenzter Mobilität\*\*  
Profitieren Sie von einer professionellen  
Akkureparatur, die Ihr Fahrerlebnis mit Van-  
Raam E-Bikes transformiert. Wir spezialisieren  
uns darauf, den Akku Ihres Cleantron 36V 11Ah  
mit Premium Lithium-Ion Zellen von  
renommierten



## Telit and Cleantron Use IoT to Optimize Lifetime and Health for

About Cleantron Cleantron, located near  
Amsterdam is a specialist Producer of Li-ion  
Battery Modules for Industry 4.0, Light Electric  
Vehicles and the Automotive Sector. Having  
developed Cell



## Contact Us

For catalog requests, pricing, or partnerships, please visit:  
<https://bialydom.kolobrzeg.pl>