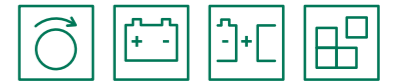




trak | systemizer powercube

The outdoor charging station for
more space and efficiency



Power is our passion...

You are looking at the results of 90 years' work. 90 years of passion for innovative solutions for mobile power supplies – 90 years of German engineering skill and the aim of never being satisfied with what we have already achieved.

This is only possible thanks to the employees, who continuously support us along this path. Together with our business partners, we have continued to push the limits forwards and ensure that the impossibilities of yesterday have now become a jointly achieved reality.

Only through our partnership with you, we are able to create the perfect symbiosis of economically optimised solutions and state-of-the-art technological products.

With our structure of nearly 2000 employees at more than 20 locations around the world, we are always close to you and keep our finger on the pulse of pioneering innovations.

Flexibility in the design of your projects and extremely reliable products are our every day aims. With highly available local service we have ensured a thorough understanding of your special challenges for decades.

If you expect more than just a product but a competent partner who is always at your side, HOPPECKE is the right choice for you.





Made in Germany

Outside in the Box – Battery charging station 2.0:

trak | systemizer powercube – the outdoor alternative for your charging station with optimum space efficiency

If unexpected order peaks have left you with insufficient traction batteries and chargers to power your industrial trucks, and you are considering converting your fleet from combustion to electric drive, we understand the challenges you face. Unfortunately, if you are unable to expand your charging station due to space constraints, budget limitations, or safety requirements, we can help you find alternative solutions.

The trak | systemiser powercube is a comprehensive solution for replacing batteries in industrial trucks. The charging container serves as a charging station with an integrated and monitored ventilation system to comply with European safety standards, and features sophisticated technology down to the smallest detail.

It only needs an electrical connection and a stable base. This means that the charging and changing stations can be set up outdoors or at any suitable location within the production area, without the need for planning and installation when constructing new buildings. This allows the space in the halls to be used for the core business, saving on high insurance costs for use in fire-sensitive areas.

The trak | systemizer powercube ensures a reliable energy supply for your vehicle fleet, both centrally and decentrally.

It provides greater flexibility and frees up space, particularly during peak order periods with high capacity utilisation.

Benefits

- ▶ Immediate applicability
- ▶ Saves warehouse space
- ▶ Compact design
- ▶ Reduced investment costs
- ▶ Easy to expand
- ▶ Quick battery change
- ▶ Increased operator safety
- ▶ **NEW:** Eye level monitoring
- ▶ **NEW:** Better access to chargers
- ▶ **NEW:** Greater depth for larger batteries
- ▶ **NEW:** Design to suit your taste



49%
up to 49% lower
installation costs

Economical!

We reduce your building investment for the charging station. You save investment costs for new rooms of up to 49%.

Space-saving!

We move the charging station from the inside to the outside. You gain additional storage space for up to 85 pallets.

Fast!

We have a fully equipped charging station for your needs. Experience has shown that you save up to 50 working days for planning and realisation.

Flexible!

This solution is ready to use for all vehicles and batteries. You gain flexibility in your choice of vehicle manufacturer.

Compliant with specifications!

Our solution complies with the standardised designs. You therefore fulfil the current specifications.

Use Case | Outdoor solution



The challenge

The company wants to extend its charging station but does not have the possibility to expand the premises.

- ▶ An expansion of the building was not possible due to lack of space
- ▶ No overnight charging possible due to individual fire protection concept
- ▶ Complying with the EN 62485-3 safety standard for traction batteries
- ▶ Outdoor charging must be temperature independent

HOPPECKE developed a tailor-made solution to expand the charging facilities of a logistics company

Unexpected bottlenecks in the workload, more space required in the warehouse and pre-existing fire protection and safety regulations presented the logistics company with the challenge of having to relocate the expansion of its charging infrastructure.

The trak | systemizer powercube makes it possible to change and charge batteries outdoors instead of indoors. This solution preserves space and allows flexibility, for example when there is an increase in order volume.

Together with the warehouse operator, a concept for the optimal positioning of the charging containers was developed. HOPPECKE supported the customer in the preparation of the official applications and in the necessary expansion of the existing infrastructure.

After analysing the local facilities, HOPPECKE took on the implementation and installation of the charging container including the chargers and batteries.

Customer benefits:

- ▶ Additional storage space
- ▶ Savings on investment costs
- ▶ Compliance with legal requirements
- ▶ Season-independent charging
- ▶ Compliance with the Water Resources Act
- ▶ Time saved by eliminating the need for building planning
- ▶ High flexibility when charging different batteries



More energy in storage: **trak | systemizer** powercube

The alternative for outdoor storage of your reserve capacity

There are many reasons to keep sufficient energy in stock: seasonal fluctuations, order peaks or as a backup in the event of a failure. It is important that reserve batteries are also stored optimally so that they are not only quickly ready for use when needed, but also give you the guarantee that they have not been damaged during the storage period. After all, batteries are an investment in the performance of your company. The right temperature is just as important as correct ventilation. Connecting them to the right chargers can also ensure that they are ready for immediate use.

It is also important to fulfil all necessary regulations in a verifiable manner. With the **trak | systemizer powercube**, you have the guarantee that all requirements are met and your investment is protected. In addition, you do not block storage areas or traffic routes with the storage of reserve batteries and avoid any risk of accidents.

Thanks to the innovative design of the **trak | systemizer powercube**, you can be sure that there is no risk of oxyhydrogen gas formation and that any acid that escapes will be safely contained in the event of an accident.

Thanks to the prefabricated modular design, you can adapt the **trak | systemizer powercube** to your needs at any time and scale the power and storage as required. Installation is as simple as you can imagine: We deliver, you connect and you are done. A reliable energy supply could not be simpler. Simply talk to our experts to find out what your ideal solution could look like.

Benefits

- ▶ Flexible outdoor solution
- ▶ Easily expandable
- ▶ Reduced investment costs
- ▶ Compliance with regulatory requirements
- ▶ Saves warehouse space
- ▶ No formation of oxyhydrogen gas
- ▶ Rental / resale possible
- ▶ No construction time / quickly available



Our charging container is available as standard in 2 sizes:

trak | systemizer powercube "LARGE"

Dimensions (W/H/D):
8849 x 2051 x 3153 cm
with roller beds for lateral battery change,
for up to 18 batteries or
18 chargers.



trak | systemizer powercube "MEDIUM"

Dimensions (W/H/D):
6249 x 2050 x 3153 cm
with roller beds for lateral battery change,
for up to 14 batteries or
14 chargers.

More efficiency thanks to innovative components

trak | systemizer fleet and **trak | systemizer powercube** – the perfect match

Modern intralogistics places ever-increasing demands on every single component in the process chain. The battery changing station is no exception.

Accelerated processes can ensure maximum efficiency in value-adding activities. This is achieved through solutions that are optimally customised to your requirements.

With **trak | systemizer fleet**, we offer you customised planning as well as project planning, installation and commissioning of a turnkey loading and changing station for industrial trucks. We work with you to develop a customised solution that is specifically tailored to your requirements. Our professionals accompany you through every step of the project and keep an eye on all the important factors.

Our charging stations guarantee maximum system and energy availability. We not only ensure a cost-efficient solution, but also compliance with all legal standards and regulations. Thanks to the modularity and flexibility of our system components, we help you to reduce your investment, maintenance and energy costs and optimise your vehicle fleet.

The perfect charging station for every application





Made in Germany

Eco-friendly, space-saving, flexible

trak | systemizer powercube by HOPPECKE

Ventilation system

Ensure that the charging container does not contain oxyhydrogen

Automatic lighting

Enables changing at any time of day or night

Monitoring at eye level

The new position of the charging platforms means that data can be read more quickly and easily

Available with roof

for sheltered working even in bad weather

Raised roof structure

to meet fire regulations clear height

Wider, bigger, deeper

even larger batteries can now be easily placed

Control unit

with safe shutdown of the power supply in case of fan failure

Insulated / F90 external cladding

for frost-free charging of the batteries and for increased fire protection

Battery bays or roller beds

with high load capacity and acid trays underneath for compliance with the WHG

Fastest availability

thanks to optimised production processes and an adapted supply chain

trak | systemizer powercube - The turnkey containerised charging station is the solution for those with limited indoor space:

- ▶ **CHARGING** your batteries
- ▶ **STORING** your batteries to create space in the interior or or keep them on hand for peak workloads

HOPPECKE outdoor charging stations designed to meet your needs.



Type overview **trak** | systemizer powercube

Features							
Type designation	Number of batteries (example)			Exterior cladding		Additional roof	
	24V	48V	80V	Thickness (mm)	Fire class	Protrusion (mm)	Height (mm)
TS-PC-3L-40	14	4	4	40	B1	-	-
TS-PC-3L-100	14	4	4	100	A1	-	-
TS-PC-3L-40-C-3m	14	4	4	40	B1	1500	3000
TS-PC-3L-100-C-3m	14	4	4	100	A1	1500	3000
TS-PC-3L-40-C-3.6m	14	4	4	40	B1	1500	3600
TS-PC-3L-100-C-3.6m	14	4	4	100	A1	1500	3600
TS-PC-3R-40	14	4	4	40	B1	-	-
TS-PC-3R-100	14	4	4	100	A1	-	-
TS-PC-3R-40-C-3m	14	4	4	40	B1	1500	3000
TS-PC-3R-100-C-3m	14	4	4	100	A1	1500	3000
TS-PC-3R-40-C-3.6m	14	4	4	40	B1	1500	3600
TS-PC-3R-100-C-3.6m	14	4	4	100	A1	1500	3600
TS-PC-5L-40	18	8	6	40	B1	-	-
TS-PC-5L-100	18	8	6	100	A1	-	-
TS-PC-5L-40-C-3m	18	8	6	40	B1	1500	3000
TS-PC-5L-100-C-3m	18	8	6	100	A1	1500	3000
TS-PC-5L-40-C-3.6m	18	8	6	40	B1	1500	3600
TS-PC-5L-100-C-3.6m	18	8	6	100	A1	1500	3600
TS-PC-5R-40	18	8	6	40	B1	-	-
TS-PC-5R-100	18	8	6	100	A1	-	-
TS-PC-5R-40-C-3m	18	8	6	40	B1	1500	3000
TS-PC-5R-100-C-3m	18	8	6	100	A1	1500	3000
TS-PC-5R-40-C-3.6m	18	8	6	40	B1	1500	3600
TS-PC-5R-100-C-3.6m	18	8	6	100	A1	1500	3600

TS: trak | systemizer
PC: powercube
3/ 5L/R: medium/ large size control left/ right
40/ 100: thickness of external cladding in mm
C: with additional roof
3/ 3.6m: roof height

Dimensions			
Adjustable width / internal clearance per sliding door	External dimensions incl. attachments	Transport dimensions	Unladen weight (Without batteries and chargers)
(W/D/H) mm	(W/D/H) mm	(W/D/H) mm	Weight [kg]
2540x1550x2274	6249x2050x3153	6249x2050x2915	3250.0
2540x1550x2275	6299x2100x3213	6299x2100x2975	3500.0
2540x1550x2276	6436x3650x3383	6249x2050x2915	3700.0
2540x1550x2277	6436x3650x3443	6299x2100x2975	3900.0
2540x1550x2278	6436x3650x3983	6249x2050x2915	3800.0
2540x1550x2279	6436x3650x4043	6299x2100x2975	4000.0
2540x1550x2280	6249x2050x3153	6249x2050x2915	3250.0
2540x1550x2281	6299x2100x3213	6299x2100x2975	3500.0
2540x1550x2282	6436x3650x3383	6249x2050x2915	3700.0
2540x1550x2283	6436x3650x3443	6299x2100x2975	3900.0
2540x1550x2284	6436x3650x3983	6249x2050x2915	3800.0
2540x1550x2285	6436x3650x4043	6299x2100x2975	4000.0
3840x1550x2274	8849x2051x3153	8849x2051x2915	5250.0
3840x1550x2275	8899x2101x3213	8899x2101x2975	5500.0
3840x1550x2276	9000x3650x3383	8849x2051x2915	5900.0
3840x1550x2277	9000x3650x3443	8899x2101x2975	6200.0
3840x1550x2278	9000x3650x3983	8849x2051x2915	6000.0
3840x1550x2279	9000x3650x4043	8899x2101x2975	6300.0
3840x1550x2280	8849x2051x3153	8849x2051x2915	5250.0
3840x1550x2281	8899x2101x3213	8899x2101x2975	5500.0
3840x1550x2282	9000x3650x3383	8849x2051x2915	5900.0
3840x1550x2283	9000x3650x3443	8899x2101x2975	6200.0
3840x1550x2284	9000x3650x3983	8849x2051x2915	6000.0
3840x1550x2285	9000x3650x4043	8899x2101x2975	6300.0

Optionally available accessories:
 1.5KW explosion-proof heater, dust filter for supply air openings, hydrogen gas detector, sprinkler system kit

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