



trak | charger HF premium

HF chargers
Efficient and smart



trak | charger HF premium HF chargers – efficient and smart

The requirements for logistics processes that are becoming increasingly more stringent have motivated HOPPECKE to develop the new trak | charger HF premium range of battery chargers. trak | charger HF premium offers a naturally energy-efficient, optimal and gentle charging for your battery.

Your Plus with the HOPPECKE high-frequency-technology

- **Mains-voltage independent energy conversion**
The automatic line regulation of the high frequency technology generates a regulated charging characteristic during the charging of your battery, which allows exact charging times.
- **Investment security for the future**
The trak | charger HF premium is a charger that provides gentle and optimal charging of every battery technology relevant for industrial application: lead acid, alkaline batteries and lithium ion batteries.
- **Low operating costs thanks to reduced energy consumption**
The high efficiency of this charger series allows reducing your energy consumption considerably. Energy savings of approx. 12% can be obtained during each charging process compared to conventional 50Hz-charger. This reduces your so-called carbon foot prints and allows you to make a positive contribution to achieve the climate change objectives.
- **Excellent efficiency of complete system**
- **In series, premium power factor correction**
No additional costs will incur for the power factor correction with the trak | charger HF premium. Additionally, you can keep the costs for electric installations low.

- **Fast charging for an enhanced availability of your vehicles**
Your batteries can be charged to up to 95% of the original charge of battery within 2.5 hours.
- **Highest level of operational safety**
thanks to parallel connection of power end stages
- **High flexibility**
Accessories components and options can be inserted or activated any time later.
- **Relevant data directly available on the touch screen**
The new type satisfies thanks to the intuitive operation and menu navigation. Relevant data are directly available on the touch screen. The state-of-the-art technology for the display and user interaction is used with TFT multi colour touch screen.
- **Very large data memory**
For a simple and paperless documentation: The full service life of a battery charging system can now be tracked completely for a continuous memory of all cycles, ampere hours, working times etc.

Robust industrial design

In cooperation with experienced industrial designers, we have successfully managed, to combine proven and new design features.

The new design is characterised by the special edge profile, the ergonomic recessed grips, the recently protected plastic parts as well as the neat cable routing of the power and communication cables.



Your Plus with HOPPECKE

- Longer service life thanks to functional design
- Higher operational safety
- Easy transport

Compact and simple construction

Thanks to a straight-lined design and the highest power density, trak | charger HF premium can be installed especially space-saving and compactly. No other charger can be arranged at such a small distance. It is the ideal solution to achieve high space savings in the planning of new buildings.

The new models are suitable either for wall mounting or rack mounting. Two sizes for casings suffice to cover all battery technologies, voltages and capacities.

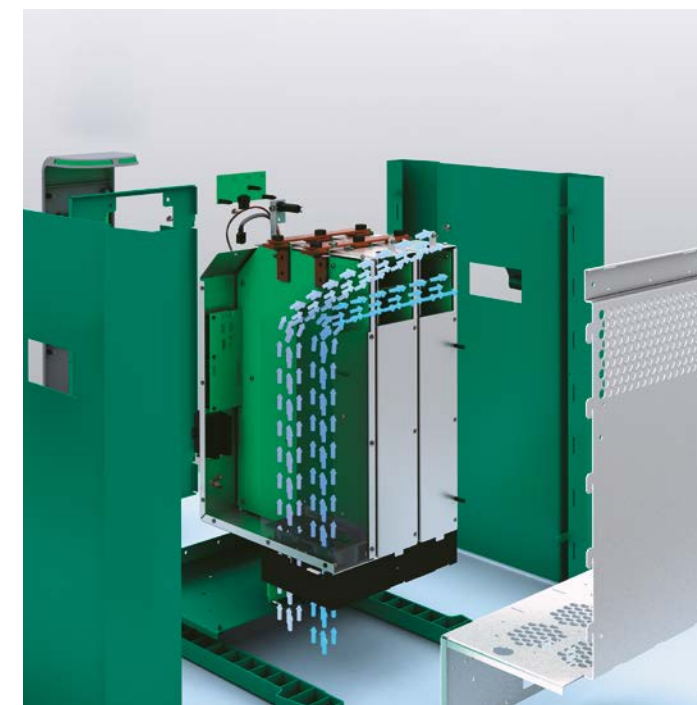


Your Plus with HOPPECKE

- Space-saving design
- Easy handling and simple installation
- Investment conserving solution, especially for new plannings of industrial buildings and charging stations

Ingenious and cool

The new two-chambered cooling system with an additional encapsulation of electronic components allows an efficient cooling in a tight space. In addition, sensitive components are better protected against aerosols and conductive dusts that are typically occurring at charging station, for instance friction wear of tyres. By default, a highly-efficient varnish coating of the circuit boards provides for an enhanced operational safety.



Your Plus with HOPPECKE

- Higher operational safety and reliability
- Excellent performance in charging station environment
- Mounting and cleaning of additional dust filter without tools

Modular

Thanks to its modularity, the charger can always adapt itself to changed conditions during the operation, like e. g. a faster and more flexible charging process and higher safety requirements due to redundancy. The configuration and identification of the parallel connected power end stages is performed automatically and without any additional software and can be activated directly on the multi colour touch screen.



Your Plus with HOPPECKE

- Maximum operational safety
- High freedom of action
- Maintenance on-site without waiting time or vehicle breakdown

Innovative charging

trak | charger HF premium allows to charge all battery technologies of all kinds of applications thanks to an adaptable charging procedure. In addition, the whole series disposes of a high range of charging voltages (24V – 80V) and battery capacities (64 Ah – 1550 Ah).

During the full service life the information about all battery charging cycles and their energy output is saved. This allows evaluating the performance data and consumption data as well as the planning of maintenance cycles. The saved data can be read via a USB port that is installed on the charger front, and can then be further processed.



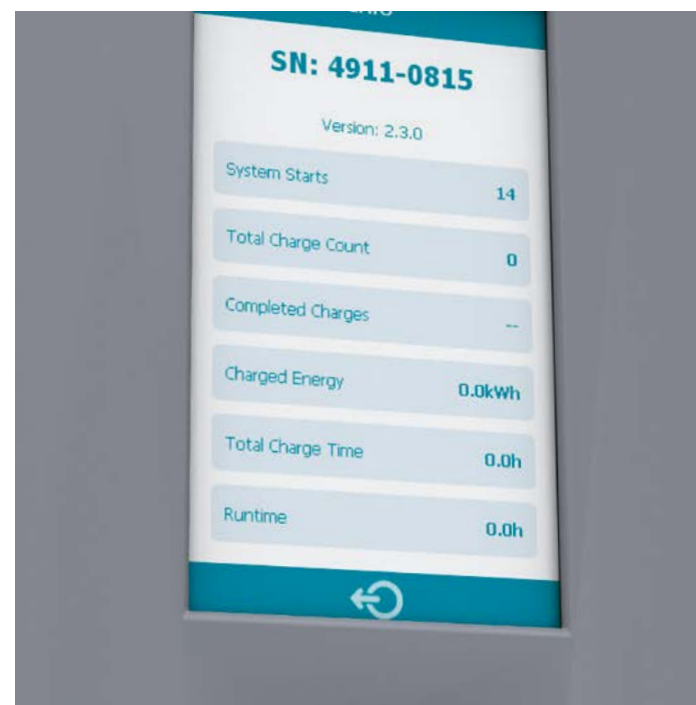
Your Plus with HOPPECKE

- Optimal and gentle charging of the battery
- High efficiency through reduction of energy costs
- Extremely flexible

Visualization

The multi colour touch screen represents the communication centre of the new charger generation that allows calling the relevant data of the display or of the download function multilingual via language selection any time.

Easy to read via a large display makes it easy to read battery state of charge even from a distance. Easily discernible indication of state of charge for a good overview about your charging station and its operationable.



Your Plus with HOPPECKE

- Extended battery life
- Increased productivity
- Improved operational reliability

Extract of most important charging device displays



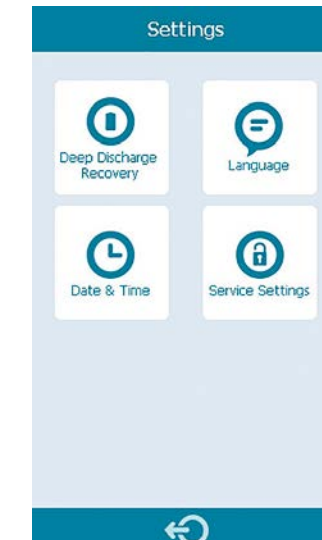
Stand-by

The charger is ready and waits for the vehicle that is to be connected.



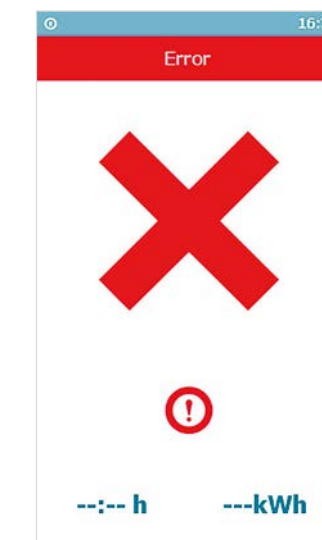
Charging completed

Displays the previously required charging time and indicates the introduced energy in kWh.



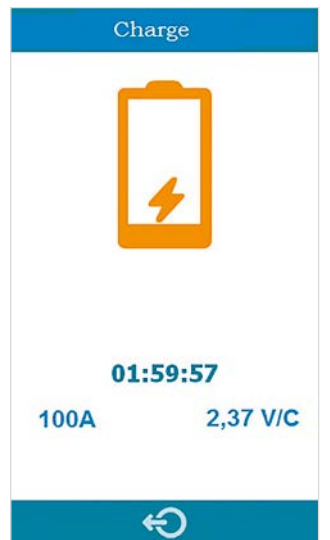
Settings

Individual settings can be performed on this user interface.



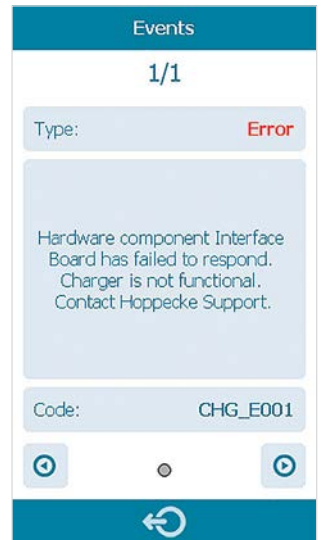
Error

There is an error / a warning. The user can close the error description by touching it.



Charging

The charger charges the battery irrespective of the level of discharge.



Events

Additional information is displayed about the error code that specifies the events.

Your Plus with HOPPECKE

- Simple and fast readability of the battery charge thanks to a large display
- Real-time tracking of charging
- Direct access to charging data and statistics on the charger
- Intuitive operation and menu navigation
- Industrial design of touch operation as usual in today's up-to-date industrial equipment
- Perfect for rental application – Fast selection of battery charging parameters of all battery types
- Easy discernible indication of charge of battery, even from a distance thanks to a newly designed status board with a 360° display
- Warning notices of batteries and charger with confirmation function via the multi colour touch screen



Accessories and options

trak | air

Optimised charging technology thanks to an electrolyte circulation

- Reduction of charging time by up to 2.5 hours
- Reduction of energy and maintenance costs of the trak | air system by up to 30%
- Longer service life
- High battery availability thanks to interim charging (Shift-plus operation)

Wall-mounting system

- Easy handling thanks to drilling template
- Space-saving mounting of devices
- Simple installation

Dust filter

- Dust filter is equipped with automatic temperature monitoring for operation in extremely dusty environment (e. g. timber-processing companies, paper industry etc.)

Transmission of charge of battery

- In order to control external devices the respective charge of battery can be transmitted by signal

Cable holder

- In order to suspend the charging cable
- Prevents damages due to cables, plugs and socket devices lying on the floor

External switching-off

- In order to control the charger with external signals, that are e. g. emanating from energy management systems. Perfect for the integration into automatic charging procedures, e. g. of automated guided vehicle systems or of the automatic contacting of charging cables

Automatic control of the water refilling

- Voltage signal at the right time with automatic filling process for your lead-acid traction battery

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Types		Modules				-10% Net Current/ Strom [A]	Nom. Net Current/ Strom [A]	Netz- Leistung/ Input S [kVA]	AC- Sicherung/ Fuse [V]	AC- Steckervorrichtung/ Plug Spannung [V]	DC- Kabel/ Cable [mm²]	Gehäusemaße/Housing			Gewicht/ Weight [kg]	Gewicht/ Weight [kg]		
												H [mm]	B [mm]	T [mm]				
E 230	24	/	030	B-F 14	HO-HFT	1	4,9	5,0	1,0	16	Schuko 230V 1~	16	618	325	390	25	31	*
E 230	24	/	060	B-F 14	HO-HFT	2	9,9	9,4	2,1	16	Schuko 230V 1~	25	618	325	390	27	33	*
E 230	24	/	090	B-F 14	HO-HFT	3	14,9	13,9	3,1	16	Schuko 230V 1~	35	618	325	390	29	35	*
E 230	24		120	B-F 14	HO-HFT	4	19,8	18,4	4,1	20	CEE 32A 230V 1~	50	618	470	390	34	40	**
E 230	24		150	B-F 14	HO-HFT	5	24,8	23,4	5,1	25	CEE 32A 230V 1~	50	618	470	390	36	42	**
D400	24	/	065	B-F 14	HO-HFT	1	2,9	2,6	1,8	16	CEE 16A 400V 3~	25	618	325	390	28	34	*
D400	24	/	130	B-F 14	HO-HFT	2	5,7	5,8	3,6	16	CEE 16A 400V 3~	50	618	325	390	33	39	*
D400	24	/	195	B-F 14	HO-HFT	3	8,7	8,7	5,4	16	CEE 16A 400V 3~	70	618	325	390	41	47	*
D400	24	/	260	B-F 14	HO-HFT	4	11,6	11,6	7,2	16	CEE 16A 400V 3~	70	618	470	390	46	52	**
D400	24	/	325	B-F 14	HO-HFT	5	14,4	14,5	9,0	16	CEE 16A 400V 3~	95	618	470	390	50	56	**
D400	36	/	065	B-F 14	HO-HFT	1	4,3	4,9	2,7	16	CEE 16A 400V 3~	25	618	325	390	28	34	*
D400	36	/	130	B-F 14	HO-HFT	2	8,7	9,9	5,4	16	CEE 16A 400V 3~	35	618	325	390	33	39	*
D400	36	/	195	B-F 14	HO-HFT	3	13,0	10,3	8,1	16	CEE 16A 400V 3~	70	618	325	390	41	47	*
D400	36	/	260	B-F 14	HO-HFT	4	17,3	19,7	10,8	25	CEE 32A 400V 3~	70	618	470	390	46	52	**
D400	36	/	325	B-F 14	HO-HFT	5	17,3	24,7	10,8	32	CEE 32A 400V 3~	95	618	470	390	50	56	**
D400	48	/	065	B-F 14	HO-HFT	1	5,8	5,2	3,6	16	CEE 16A 400V 3~	25	618	325	390	22	27	*
D400	48	/	130	B-F 14	HO-HFT	2	11,5	10,4	7,2	16	CEE 16A 400V 3~	35	618	325	390	31	36	*
D400	48	/	195	B-F 14	HO-HFT	3	17,3	15,5	10,8	20	CEE 32A 400V 3~	70	618	470	390	39	44	*
D400	48	/	260	B-F 14	HO-HFT	4	23,1	20,7	14,4	25	CEE 32A 400V 3~	70	618	470	390	47	52	**
D400	48	/	325	B-F 14	HO-HFT	5	28,8	26,0	18	32	CEE 32A 400V 3~	95	618	470	390	55	60	**
D400	72	/	040	B-F 14	HO-HFT	1	5,3	4,8	3,3	16	CEE 16A 400V 3~	16	618	325	390	22	27	*
D400	72	/	080	B-F 14	HO-HFT	2	10,6	9,6	6,6	16	CEE 16A 400V 3~	35	618	325	390	31	36	*
D400	72	/	120	B-F 14	HO-HFT	3	16,0	14,3	9,9	20	CEE 32A 400V 3~	35	618	325	390	39	44	*
D400	72	/	160	B-F 14	HO-HFT	4	21,3	19,1	13,3	25	CEE 32A 400V 3~	50	618	470	390	47	52	**
D400	72	/	200	B-F 14	HO-HFT	5	26,6	24,0	16,6	32	CEE 32A 400V 3~	70	618	470	390	55	60	**
D400	80	/	040	B-F 14	HO-HFT	1	6,0	5,4	3,7	16	CEE 16A 400V 3~	16	618	325	390	22	27	*
D400	80	/	080	B-F 14	HO-HFT	2	12,0	10,7	7,4	16	CEE 16A 400V 3~	35	618	325	390	31	36	*
D400	80	/	120	B-F 14	HO-HFT	3	17,9	16,1	11,2	25	CEE 32A 400V 3~	35	618	325	390	39	44	*
D400	80	/	160	B-F 14	HO-HFT	4	23,9	21,5	14,9	25	CEE 32A 400V 3~	50	618	470	390	47	52	**
D400	80	/	200	B-F 14	HO-HFT	5	29,9	26,8	18,6	32	CEE 32A 400V 3~	70	618	470	390	55	60	**

* Kleines Gehäuse, ** mittleres Gehäuse Jedes Ladegerät ist in 5A-Schritten innerhalb seines Produktspektrums verfügbar!
* small housing, ** medium housing Each charger is available in 5A-steps within its product range!

HOPPECKE Batterien GmbH & Co. KG
Bontkirchener Str. 1
59929 Brilon
Germany
Phone: +49 (0) 2963 61-0
Fax: +49 (0) 2963 61-449
Email: motivepower@hoppecke.com