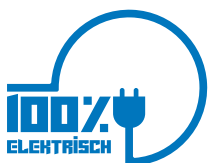




THINK URBAN. DRIVE ELECTRIC.



www.elion.net



**T
SERIE**

ELION RANSPORT - THE ELECTRIC TRANSPORTER

The ELION T-series from the manufacturer MUP technologies GmbH (first and only OEM for the manufacture of electric commercial vehicles) from Austria, is a fully electric transporter in the vehicle class N1 up to 3.5 tons. MUP technologies is the specialist for electric utility vehicles & equipment carriers for municipal services & urban use. MUP technologies' vehicles are perfectly suited to match modern and innovative municipalities that intend to work in an exemplary, emission-free and nearly noiseless manner in environmental zones. For this application, MUP technologies offers a complete digitalization of your vehicle, whether in combination with a fleet management or MUP technologies' own Databox. Document and optimize your daily operations with a mouse-click. You can also benefit from the modular vehicle concept of the T series for maximum future security. Additional attachments and superstructures can also be easily and conveniently

exchanged or retrofitted at a later date.

The designs of ELION vehicles are also characterized by low follow-up costs in maintenance and operation, by the use of high-quality assemblies and partly maintenance-free components such as engines. Benefit from the simple diagnostic options of the vehicles, or the low operating costs of around 1/5 of a conventional vehicle in the same vehicle class with an internal combustion engine.

SAVE TIME!

Improve the efficiency of your fleet with the T-series transporters and a design speed of 67 km/h. Shorten the travel time to your work sites, or use the option to drive on the city highway.



EMISSION, CONSUMPTION & EFFICIENCY

EMISSION-FREE PRODUCTION

As manufacturer, MUP technologies aims to keep the CO₂-emissions in Stallhofen/Austria as low as possible. The energy supply of the entire production site is completely ensured by renewable energies. In this way the vehicles already leave behind a very small ecological footprint during production.

MUP TECHNOLOGIES' VEHICLES ARE 100 % ELECTRICALLY POWERED.

All ELION attachments and superstructures have been specially designed, developed and optimized for electrified operation.

COST COMPARISON ELION T20 TO COMBUSTION WITH DIESEL ENGINE:

The ELION T20 requires around 13.5 kWh per 100 km at an average speed of 35 km/h.

In comparison, a combustion engine of the same vehicle class and similar design powered by diesel requires around 112.7 kWh per 100km.

¹⁾Data: Vehicle MUP technologies, 33 kW, all-wheel drive, approx. 135 Wh/km at 35 km/h (average), combustion engine 33 kW diesel, approx. 1,127 Wh/km, at 35 km/h (average). Thus cost (energy consumption) ELION T20 on 100 km (electricity cost average Eurostat 2019 = 0,2294 €/kWh) about 3,09 €/ 100 km.

From
¹⁾3,09€ /100km
0g HC-Emission
0g CO₂-Emission
CO₂ savings/Year
43.560 kg

Calculation basis savings: 11l diesel/h - 6 h/day - 250 days/year

Warehouse and logistics operation

COMPACT AND ERGONOMIC

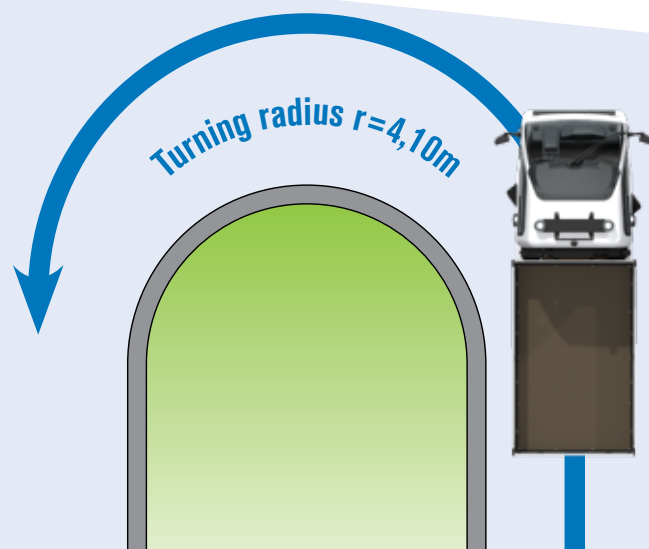
The T-series vehicles are perfectly tailored for extensive use by municipalities, last-mile delivery services, for companies with internal transport routes, nurseries, catering services, logistic centers and many more.

Due to the approval class N1 with a maximum permissible total weight of up to 3.5t, the vehicles can be driven with a class B driver's license. The ELION transporters combine a high loading volume with a compact construction. Furthermore, the vehicles convince with a high payload of up to 1.4 t.



COMPACT & MANEUVERABLE

The compact dimensions of the ELION are perfectly suited for working in urban environments. Drive on sidewalks or narrow alleys, due to the narrow track width and narrow clearance width of 1480 mm. You can also benefit from the maneuverability of the ELION vehicles due to the short wheelbase and the installation of the cabin above the front axle without protruding far.



The cabin offers the best protection for driver and co-driver and has been checked and tested in all relevant crash tests of the commercial vehicle class N1.

Facultative, the cabin can also be equipped with a fire extinguisher.

CABIN

The command center of the ELION is very comfortably furnished. Seats, instrumentation and displays are ergonomically arranged and designed for a long working day. In direction of travel, the driver's display provides an overview of all the data relevant for driving.

The cabin is designed for two people, with enough space for both driver and co-driver. For logistical services the co-driver seat can be omitted in order to retrofit a logistics interface.

The cabin features a large, tinted panoramic windshield with a good view of the traffic area.

- Comfortable cabin with sliding side windows for driver and co-driver
- Very spacious and plenty of headroom, even for tall and stout people
- LED driving lights
- Heated windshield
- Electrically adjustable and heated side mirrors
- Seats with seat heating, adjustable backrest and longitudinal position and continuously height-adjustable armrest (optional)
- Storage spaces and compartments with nets (optional)
- Cup holder
- Heating register with 3-stage and adjustable air vents
- Radio with speakers in the roof liner

MLink[®] Smart

INTELLIGENCE THROUGH MLINK

Take advantage of the benefits of MLink Smart.

Network the vehicles with your fleet management system or use the online platform from MUP technologies for evaluation.

Track the position of your vehicles or send orders to the responsible drivers. Keep track of the maintenance intervals of the individual vehicles and the condition of the battery packs via the MLink platform.

VERSATILE & WELL THOUGHT OUT

INDEPENDENT SUSPENSION

The ELION has independent suspension on the front and rear axles. Due to the independent suspension, ELION has a suspension comfort almost like a passenger car. The independent suspension is ideal at higher speeds. It guarantees precise steering and high driving stability.

VEHICLE FRAME

The vehicle frame is a robust steel profile frame partially welded and bolted. For the vehicle frame, the highest quality is used with exclusively S355 steel, as well as KTL and powder coating for the best possible corrosion protection. The vehicle frame has all the necessary mounting points for interchangeable bodies and/or loading areas.

STEPLESS ALL-WHEEL DRIVE

The continuously variable all-wheel drive ensures variable power distribution between the front and rear axles and optimum power adjustment depending on the ground conditions. This all-wheel drive also helps to protect the ground on soft surfaces. Furthermore, it guarantees maximum towing capacity of the work vehicle.

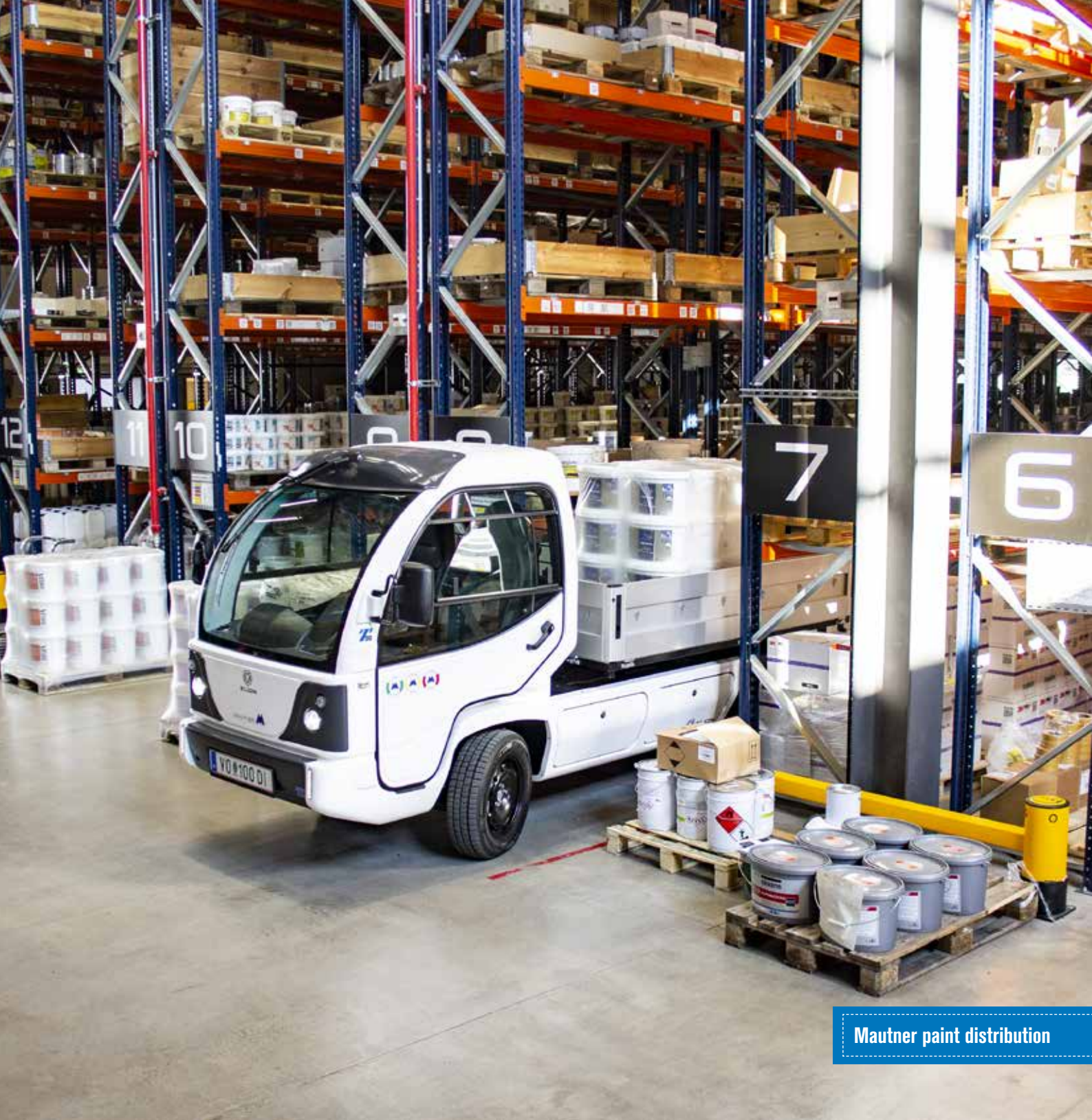


MAINTENANCE:

The T-series electric powered vehicles are not maintenance-intensive.

Locations that require frequent maintenance are easily accessible and panels can be easily removed when necessary.

Most maintenance points can be easily accessed by folding up the body platform.



Mautner paint distribution

EQUIPMENT DETAILS



TRAILER COUPLING

The trailer coupling attached to the vehicle in ball head design in combination with the 13-pin plug is designed for trailers with a total weight of up to 1400 kg.



LUGGAGE NETS

Luggage nets in front of and behind the seats provide space for things needed in everyday work.



SWITCH STRIP

The switch strip integrated in the roof liner allows the most important functions, such as the rotating light or repeat lighting, to be operated quickly and conveniently.



STORAGE ROOMS

ELION offers three large, externally accessible, waterproof, lockable, storage compartments for work materials, tools or other items.



WARNING LIGHT BAR

The LED warning light bar is easy to install and is characterized by its long service life with constant luminosity.



QUICK-CHANGE SYSTEM

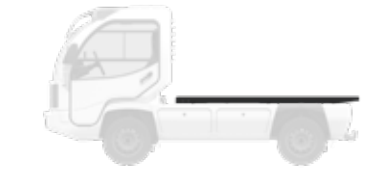
The quick-change system enables safe and convenient changing of different superstructures in the shortest time possible.

UNIVERSAL - ONE VEHICLE - ALL POSIBILITIES

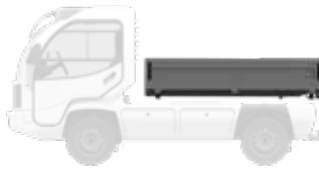
APPLICATION

The base of the T-series is the starting point of limitless application possibilities. Predefined superstructures can be easily changed and extend the usability within the company or community. The standard superstructures are constantly being developed and expanded. Through personalized superstructures, there are no limits to the applications of the T-series.

-  green care
-  casting
-  special operations
-  wet cleaning
-  winter service
-  transport
-  weed clearance
-  disposal / recycling
-  road maintenance
-  hospitality & tourism
-  delivery & package service
-  industry & intralogistics
-  agriculture



flat loading platform



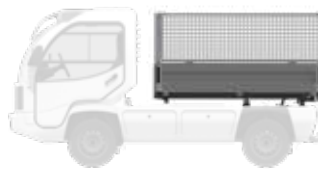
flatbed standard



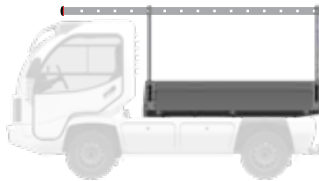
flatbed with three-way tipper



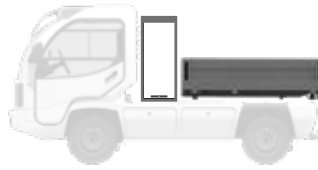
tarpaulin structure



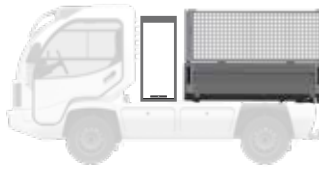
flatbed with lattice structure



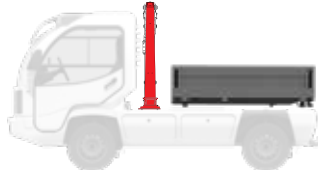
flatbed with ladder holder



short flatbed with box behind cabin



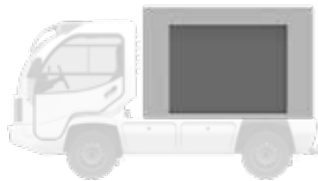
short flatbed with lattice structure and box behind cabin



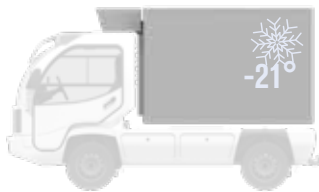
crane with short flatbed



hook loader



box body



insulated freezer box body



tail lift on flatbed



tail lift on box body



waste transport tub high emptier



waste transport tub high emptier with trash can lift



waste transport tub high emptier with waste can lift and waste compactor



snow blade



flat silo-caster



water tank, brine spraying system



trailer coupling front



customized construction

Symbol images, may differ visually

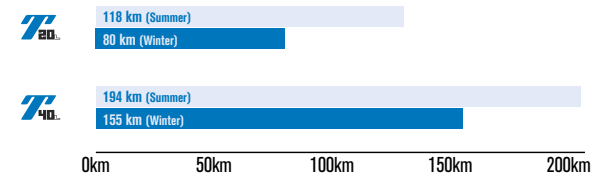


CAREFREE ENERGY CHARGING

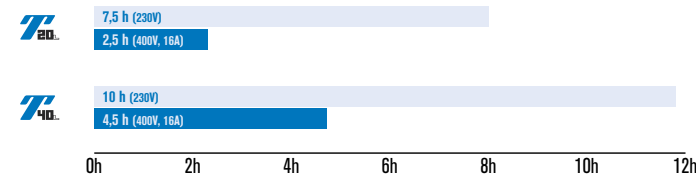
ELION has its charging infrastructure on board, so you can charge your vehicle with energy almost anywhere. You can choose between 230V, 400V or Typ2 charging interfaces, you only need the respective charging cables, which can be delivered with the vehicle.



RANGE*



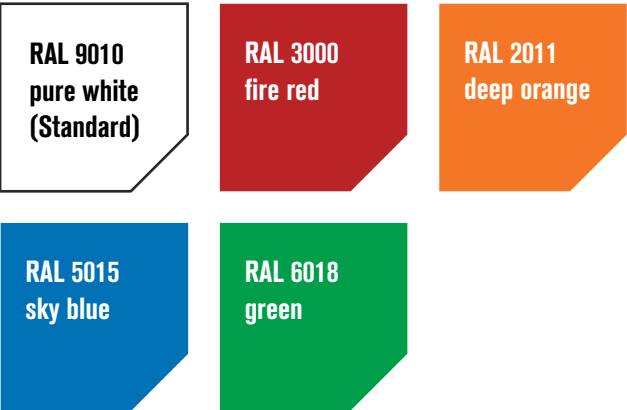
CHARGE TIME (SOC 0-100%)



TIRE CAPABILITIES



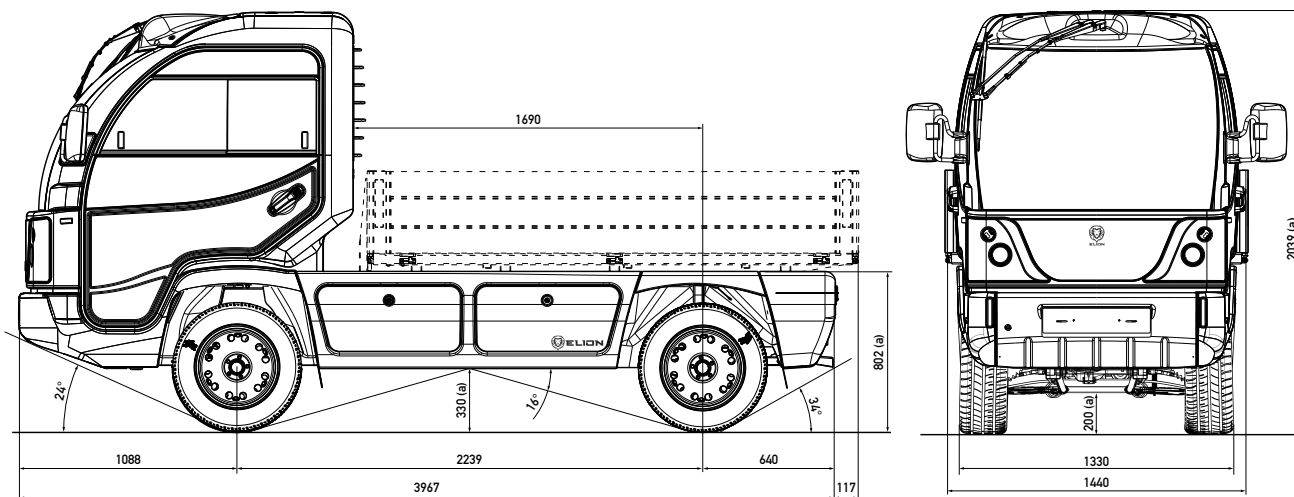
COLOR VARIATIONS (SPECIAL COLOR POSSIBLE)



OVERVIEW VEHICLE TYPES

vehicle type	T20		T40
drive			
engine power [kW]	15	2x8	2x15
maximum rated power [kW]	24,6	27,6	31,4
maimum system power [kW]***	34	36	41
torque [Nm]	92,8	134,5	140,6
drive type	2WD	4WD	4WD
transmission & driving stages	stepless, transmission with differential 2 driving stages electrically simulated		
pollutant emissions	none		
driving and working characteristics			
speed [km/h]	0-67		
crawling speed [km/h]	0-10 0-30		
front axle and rear axle	single-wheel suspension		
steering	electric servo assistance		
brake (Va // Ha)	internally ventilated disc brake // disc brake & load-dependent brake force regulator		
tyres (biggest)	195/70 R15		
cabine	two-person comfort cabin		
charge values			
maximum total weight [kg]	2510	2810	2810
permissible axle load (Va//Ha) [kg]	1270//1240	1420//1390	1420//1390
total pull weight [kg]	3360	3810	4310
max trailer load [kg]	1200	1400	1600
payload [kg] (incl. battery package & driver, without construction)	1215	1145-1445	1325
dimensions (without superstructures)			
wheel base [mm]	2239		
total length [mm]	3967		
total height [mm]	2039 (at 195/70 R15)		
total outside width [mm]	1462 (without mirror) / 1780 (with mirror)		
turning radius [m]	4,10		
ground clearance** [mm]	330		
loading area three-way tipper [mm, L x H x B]	2300x1385x400		
energy storage			
battery chemistry	LiFeP04		LiFeP04
energy content [kWh]	22,0		44,0
range* [km]	118 - 137	106 - 124	194 - 219
charging time 230V [h]	7,5		10
charging time 400V; CEE- 16A [h] (also plug TYP2 possible)	2,5		4,5
charging time 400V; CEE- 32A [h] (also plug TYP2 possible)	k.A.		k.A.
Betriebsspannung [V]	96		

* According to WLTP test (EU) 2017/1151
** with largest tyres
*** peak performance specified by the manufacturer



(a) empty vehicle
representation in compressed state, with tyres 195/70 R15



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Herberstein Zoo



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