HOPPECKE
POWER FROM INNOVATION

Data sheet

trak | uplift battery series

01 battery system

Technology	Lead batteries (vented with liquid electrolyte)
Application	Traction batteries (e.g. for industrial forklift trucks)
Technical design	Single cells in a tray connected in series
Connection system	Fully insulated flexible cable connector system, screw dimension M10
Nominal voltage	12 – 120V (other voltages available on request)
Dimensions, weight, design	According to DIN 43536, DIN 43531, DIN 43535, DIN 43537 (Other dimensions available on request)
Options	- trak | air electrolyte circulation system - Vent plug - Central degassing system - trak | aquafill water refilling system - trak | aquafill with central degassing system - Electrolyte level indicator - Temperature sensors pt100 / pt1000 - trak | collect monitoring system - Tray cover
Ability for opportunity charging	with trak | air option
Ability for fast charging	with trak | air option
Ability for use in deep-freeze areas	with special trak | air und trak | aquafill components
Recuperation	yes

02 cell

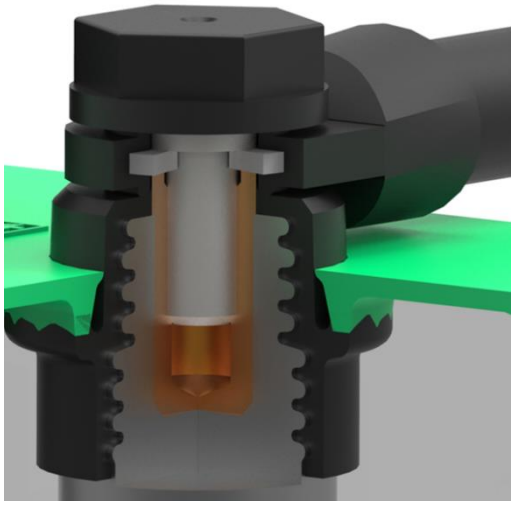
Technology	Single cells with tubular electrodes
Dimensions, marking	Dimension series L (PzS) and E (PzB) according to DIN EN 60254-2
Capacity C_5 (U_f = 1.70 V/C, T = 30°C)	64 – 1550Ah
Depth of discharge (max.)	80% C_5
Energy efficiency η_{Wh} according to DIN EN 16796-1	up to 77.5% (charging factor 1.05)
Service life	Up to 1.700 cycles* * verified by accelerated laboratory test
Operating temperature range	-20 to +55°C
Protection class	IP 25, according to DIN 40050
Recharging interval during storage	every 1.5 months (storage at 20°C)
Ventilation requirements	according to IEC 62485-3 and ZVEI-Information leaflet No. 14e “Ventilation of battery charging rooms for lead-acid traction batteries“
Nominal density of the electrolyte	1.29 kg/l
Cell container	100% recycled polypropylene, flammability class UL 94 HB
Positive electrode	Tubular plate with non-woven polyester-gauntlet
Negative electrode	Flat plate
Separator	High Charge polyethylene-separator with optimized profile structure and antimony-blocker
Pole design	HOPPECKE Compound Pole with plastic overmolded three-dimensional metal surface

Recommended charging procedure	IU, IUIa according to DIN 41773 T1
Charging voltage (main charging phase)	2.40 V
Charging current	up to 2 x I_5 (higher currents possible)

03 special features

Active Carbon Inside	The use of additives specially matched to optimized active masses improve the high-current capability during charging and discharging (rapid charging/recuperation)
Protective Shell-Seperator	Full covering of the electrode by a separator pocket, protects against short circuits and extends the service life
Air-Ready	Battery cells are trak | air ready - giving the possibility to upgrade from trak | uplift to trak | uplift air

trak | uplift iQ
(with trak | collect battery monitoring system)



HOPPECKE compound pole
(sealing and insulating pole/connector system)