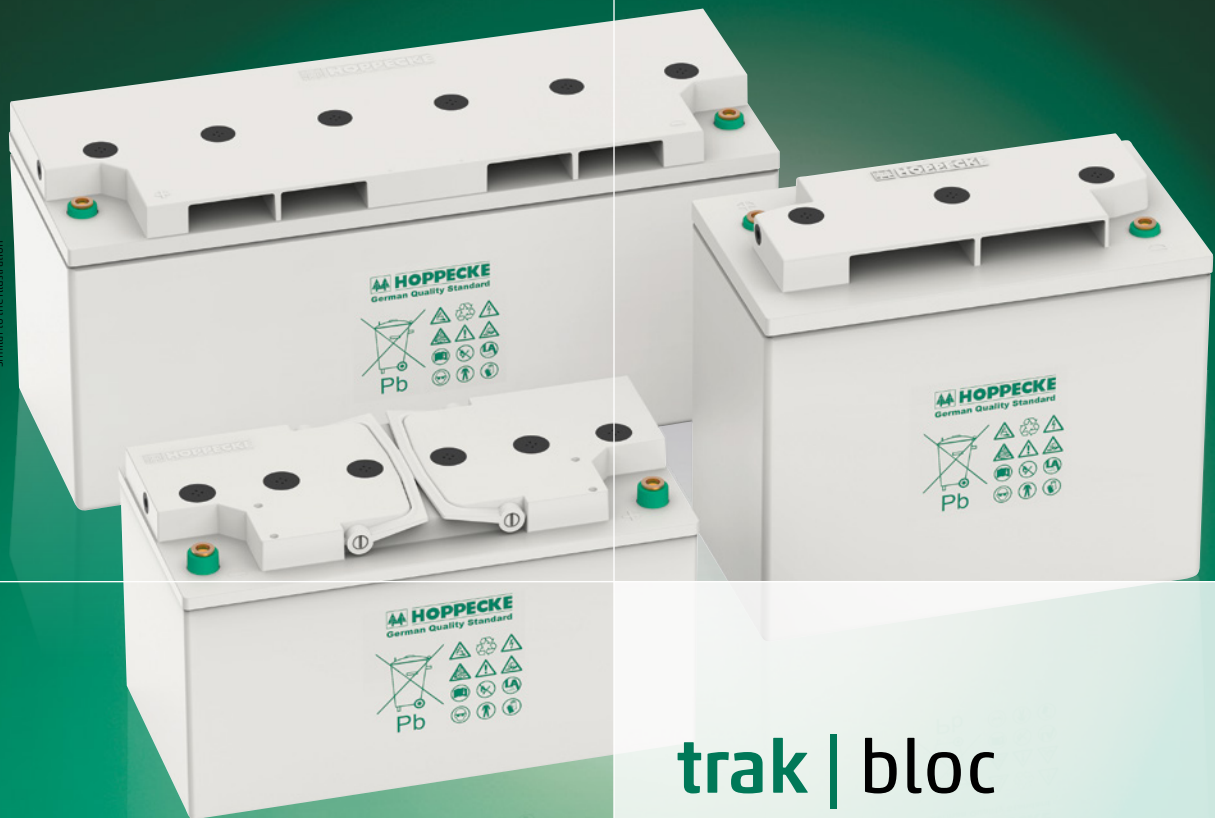


Similar to the illustration



trak | bloc

Maintenance-free
monobloc traction batteries

trak | bloc

Typical applications:

- Cleaning machines
- Wheelchairs
- Golf carts and electric caddies
- Access platforms
- Boats, caravans and leisure uses

Your benefits:

- Maintenance-free AGM monobloc battery
- Up to 20 % more capacity than similar battery systems of the same volume
- Outstanding properties under extreme conditions of use in cleaning machines and electric wheelchairs

Monobloc traction batteries with the HOPPECKE absorbent glass mat technology

HOPPECKE trak | bloc are sealed batteries for cyclical applications. With their compact design, these batteries are ideal for use in cleaning machines, wheelchairs, electric golf trolleys and caravans. Through use of absorbent glass mat technology the electrolyte is fixed, making these batteries maintenance-free and non-spillable.

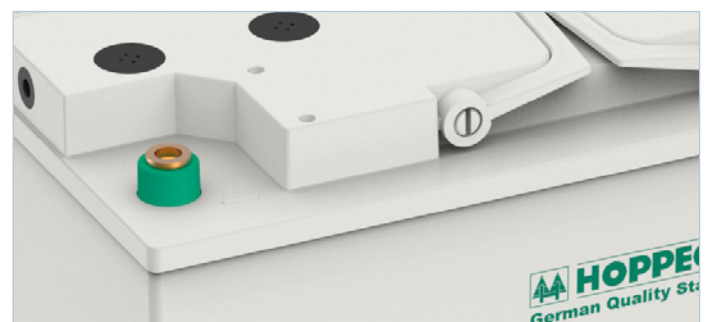
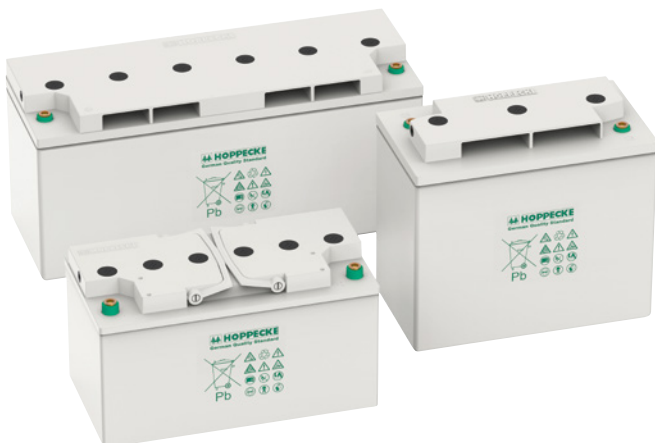
trak | bloc battery technology was developed by HOPPECKE for the automotive industry at the beginning of the century and to date has offered excellent reliability and a long life expectancy in industrial applications.

Features:

- Maintenance free traction battery
- Maximum energy density
- Very good resistance to vibration
- Excellent high-current behaviour
- Comprehensive product range
- Variety of connection options

Your benefits:

- No topping up with water over the whole life of the battery
- Greater range for vehicles with high power consumption
- Compatible with almost all vehicles on the market
- Flexible battery design (horizontal position)



With the flexible connection system it is easy to choose the most suitable type of connection.

trak | bloc charging system

TBL chargers are suitable for all applications of trak | bloc batteries, in particular for industrial applications and for personal use.

Features of the trak | bloc chargers:

- Regulated chargers operating at high frequency
- Precise charging of the battery through microprocessor control
- Optimal assignment of charging currents to battery capacity
- Energy-saving charging (high degree of efficiency)
- Fully-automatic start, charging sequence, and fully automatic disconnection
- LEDs show the state of charge, charging progress and events
- Diagnostic checks during charging, and automatic switching off in the event of malfunction
- Robust casing with wall mounting option
- Optional immobiliser
- Optional external state of charge display
- Capable of on-board installation

| Voltage [V] | trak bloc battery | chargers trak bloc charging time ca. 10 h |
|-------------|-------------------------|---|
| 12 V | 12 V (1x) 12 TB 50-115 | E230G12/15B-F11TBL-B8 |
| 12 V | 12 V (1x) 12 TB 130-170 | E230G12/25B-F11TBL-C8 |
| 24 V | 24 V (2x) 12 TB 50-70 | E230G24/12B-F11TBL-B8 |
| 24 V | 24 V (2x) 12 TB 80-170 | E230G24/25B-F11TBL-C8 |
| 36 V | 36 V (3x) 12 TB 50-170 | E230G36/25B-F11TBL-G |
| 48 V | 48 V (4x) 12 TB 50-115 | E230G48/18B-F11TBL-G |
| 48 V | 48 V (4x) 12 TB 130-115 | E230G48/30B-F11TBL-N |

All units designed for mains operation at 207-253 V AC and 50/60 Hz.
Automatic compensation for mains power fluctuations $\pm 10\%$.
Special voltages (110 V 1~) on request.



trak | bloc (TBL) - chargers

trak | bloc charging system

Your benefits from trak | bloc chargers:

- Special HOPPECKE charging characteristic 100 % matching of charger and battery
- Guarantee of long cycling life
- Short charging times mean fast availability of battery capacity
- Low power consumption
- Reliability in operation
- Simplified handling due to automatic start of charging on contacting
- Small, lightweight chargers
- Suitable for the complete range of applications of trak | bloc batteries

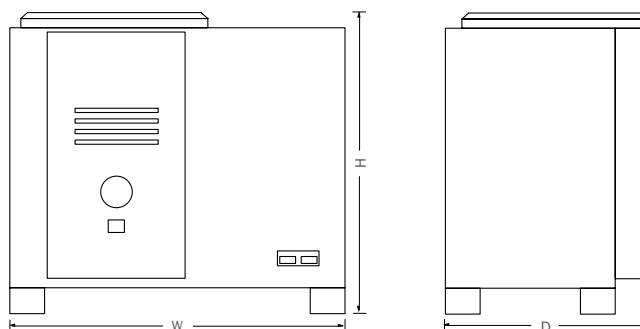
| GEL-AGM system Sealed (Ah C5) approx. 10 h | Charger type | Mains output [VA] | Mains current [A] | Mains fuse rating [A] |
|---|--------------------|-------------------|-------------------|-----------------------|
| 60 - 100 | E 12/15 HOHF mini | 245 | 1.2 | 10 |
| 100 - 260 | E 12/30 HOHF mini | 450 | 2.2 | 10 |
| 150 - 390 | E 12/45 HOHF mini | 720 | 3.5 | 10 |
| 201 - 520 | E 12/60 HOHF mini | 960 | 4.6 | 10 |
| 60 - 100 | E 24/15 HOHF mini | 450 | 2.2 | 10 |
| 100 - 260 | E 24/30 HOHF mini | 890 | 4.3 | 10 |
| 150 - 390 | E 24/45 HOHF mini | 1335 | 6.5 | 10 |
| 242 - 520 | E 24/60 HOHF mini | 1780 | 8.6 | 10 |
| 25 - 65 | E 36/7,5 HOHF mini | 313 | 1.6 | 10 |
| 50 - 100 | E 36/15 HOHF mini | 625 | 2.8 | 10 |
| 75 - 195 | E 36/22 HOHF mini | 916 | 4.0 | 10 |
| 100 - 260 | E 36/30 HOHF mini | 1250 | 5.4 | 10 |
| 25 - 65 | E 48/7,5 HOHF mini | 450 | 2.2 | 10 |
| 50 - 100 | E 48/15 HOHF mini | 890 | 4.3 | 10 |
| 75 - 195 | E 48/22 HOHF mini | 1335 | 6.5 | 10 |
| 100 - 260 | E 48/30 HOHF mini | 1780 | 8.6 | 10 |

Casing dimensions (W x H x D): 300 x 336 x 296 mm

trak | power mini



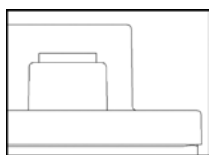
Similar to the illustration



Capacities, dimensions and weights

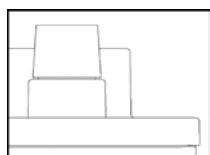
| Type | Material number | Voltage (V) | Capacity C ₅ 30 °C (Ah) | Capacity C ₂₀ 30 °C (Ah) | Length L (mm) | Width W (mm) | Height H (mm) | Weight (kg) | Terminal | Terminal layout | pcs. per pallet | Handle |
|-----------|-----------------|-------------|------------------------------------|-------------------------------------|---------------|--------------|---------------|-------------|----------|-----------------|-----------------|--------|
| 12 TB 50 | 3213387050 | 12 | 50 | 55 | 232 | 177 | 190 | 19 | 3 | B | 38 | Yes |
| 12 TB 50 | 3213387051 | 12 | 50 | 55 | 232 | 177 | 190 | 19 | 4 | B | 38 | Yes |
| 12 TB 50 | 3213387052 | 12 | 50 | 55 | 232 | 177 | 190 | 19 | 5 | B | 38 | Yes |
| 12 TB 60 | 3213387060 | 12 | 60 | 65 | 267 | 177 | 190 | 23 | 3 | B | 32 | Yes |
| 12 TB 60 | 3213387061 | 12 | 60 | 65 | 267 | 177 | 190 | 23 | 4 | B | 32 | Yes |
| 12 TB 60 | 3213387062 | 12 | 60 | 65 | 267 | 177 | 190 | 23 | 5 | B | 32 | Yes |
| 12 TB 70 | 3213387070 | 12 | 70 | 75 | 303 | 177 | 190 | 24 | 3 | B | 28 | Yes |
| 12 TB 70 | 3213387071 | 12 | 70 | 75 | 303 | 177 | 190 | 24 | 4 | B | 28 | Yes |
| 12 TB 70 | 3213387072 | 12 | 70 | 75 | 303 | 177 | 190 | 24 | 5 | B | 28 | Yes |
| 12 TB 80 | 3213389080 | 12 | 80 | 85 | 342 | 177 | 190 | 31 | 3 | B | 24 | Yes |
| 12 TB 80 | 3213389081 | 12 | 80 | 85 | 342 | 177 | 190 | 31 | 4 | B | 24 | Yes |
| 12 TB 80 | 3213389082 | 12 | 80 | 85 | 342 | 177 | 190 | 31 | 5 | B | 24 | Yes |
| 12 TB 90 | 3213307100 | 12 | 90 | 100 | 344 | 177 | 230 | 38 | 3 | A | 24 | No |
| 12 TB 90 | 3213307101 | 12 | 90 | 100 | 344 | 177 | 230 | 38 | 4 | A | 24 | No |
| 12 TB 90 | 3213307104 | 12 | 90 | 100 | 344 | 177 | 230 | 38 | 5 | A | 24 | No |
| 12 TB 115 | 3213319115 | 12 | 115 | 130 | 344 | 170 | 275 | 45 | 3 | A | 12 | Yes |
| 12 TB 115 | 3213319116 | 12 | 115 | 130 | 344 | 170 | 275 | 45 | 4 | A | 12 | Yes |
| 12 TB 115 | 3213319117 | 12 | 115 | 130 | 344 | 170 | 275 | 45 | 5 | A | 12 | Yes |
| 12 TB 130 | 3213307130 | 12 | 130 | 150 | 498 | 177 | 230 | 55 | 3 | A | 16 | No |
| 12 TB 130 | 3213307131 | 12 | 130 | 150 | 498 | 177 | 230 | 55 | 4 | A | 16 | No |
| 12 TB 130 | 3213307132 | 12 | 130 | 150 | 498 | 177 | 230 | 55 | 5 | A | 16 | No |
| 6 TB 170 | 3213317170 | 6 | 170 | 185 | 242 | 170 | 275 | 32 | 3 | C | 21 | No |
| 6 TB 170 | 3213317172 | 6 | 170 | 185 | 242 | 170 | 275 | 32 | 4 | C | 21 | No |
| 6 TB 170 | 3213317171 | 6 | 170 | 185 | 242 | 170 | 275 | 32 | 5 | C | 21 | No |
| 6 TB 220 | 3213307220 | 6 | 220 | 226 | 308 | 168 | 272 | 40 | 3 | C | 14 | No |
| 6 TB 220 | 3213307222 | 6 | 220 | 226 | 308 | 168 | 272 | 40 | 4 | C | 14 | No |
| 6 TB 220 | 3213307221 | 6 | 220 | 226 | 308 | 168 | 272 | 40 | 5 | C | 14 | No |

Terminal 3



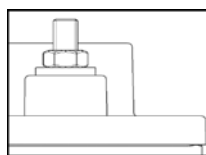
Screw-Terminal M8

Terminal 4



Screw-Terminal +
Cone-Adapter

Terminal 5

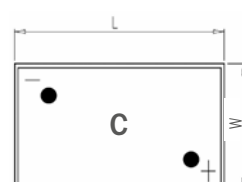
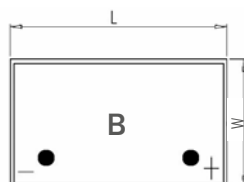
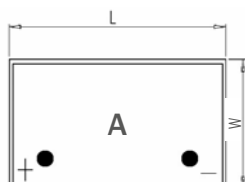
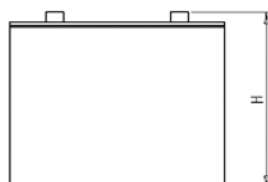


Screw-Terminal +
M6-Bolt-Adapter

12 TB 50
12 TB 60
12 TB 70
12 TB 80

12 TB 90
12 TB 115
12 TB 130
6 TB 170
6 TB 220

Terminal layout



HOPPECKE Batterien GmbH & Co. KG
Bontkirchener Str. 1
D - 59929 Brilon
Tel.: +49 (0) 2963 61-475
Fax: +49 (0) 2963 61-270
E-Mail: motivepower@hoppecke.com

