

Telecom/IT Battery Systems

AGV Battery Systems

Motive Power Systems

**Railway Battery Systems**

Power Supply

Standby

# rail.power



## Product features

### ⇨ customer benefits

- Battery technologie (vlies.tec®)
  - ⇨ high cycle life
  - ⇨ maximum cranking current
- Electrolyte fixed in glass mat
  - ⇨ no maintenance
  - ⇨ horizontal operation (option)
- Protection against flashback and central degassing integrated in the lid
  - ⇨ Enhanced protection against risk of explosion
- Smooth battery lid with integral handle
  - ⇨ easy-to-clean surface
  - ⇨ easy to handle
- Composite terminal / system connector
  - ⇨ no corrosion
  - ⇨ prevents short-circuits even during installation

## APPLICATIONS

- Diesel traction (diesel starting and onboard systems)
- Electrical multiple units
- Passenger coaches

# rail.power

## Specification

**Positive plate:** Grid electrodes with optimised special alloy (lead-calcium-tin)

**Negative plate:** Grid electrodes with optimised special alloy (lead-calcium-tin)

**Electrolyte:** Electrolyte bound in glass mat (AGM)

**Cell lid and**

**housing:** Polypropylene type A and B / ABS type C and D

**Battery terminal:** Cone terminal type A and B / M8 screw terminal with non-ferrous metal insert type C and D

**Connector:** Fully-insulated copper connector

### Charging procedure:

Charging at constant voltage to the IU charging characteristic without current limitation. Boost charging at 2.35 to 2.4 V per cell. – 4 mV / K adjustment of charging voltage depending on ambient temperature.



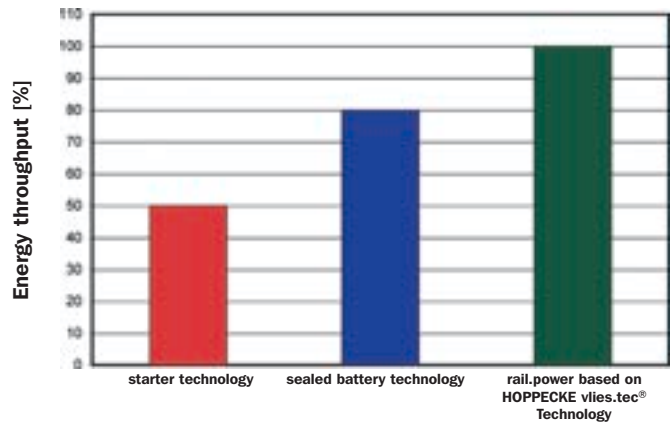
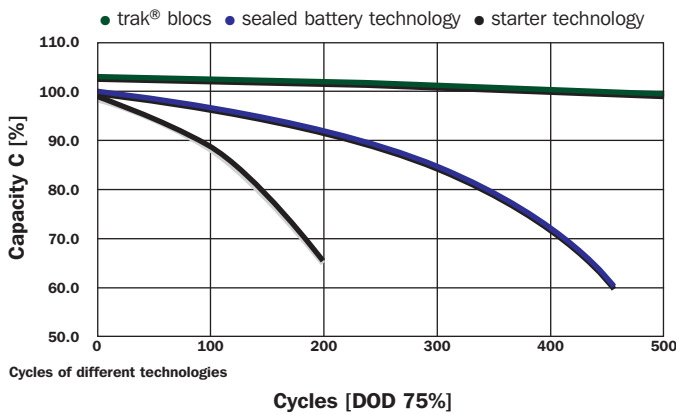
Type C/D



Type A/B



rail.power with temperature sensor (type A/B)



Type	Voltage	C5*	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
rail.power A	12 V	58 Ah	278	175	190	23.0
rail.power B	12 V	78 Ah	353	175	190	29.0
rail.power C	12 V	100 Ah	558	125	230	39.0
rail.power D	12 V	150 Ah	558	125	315	62.0

\* T = 30°C U<sub>min</sub> = 1.7 V/cell as specified by UIC

Sales and Administration  
**HOPPECKE Batterien GmbH & Co. KG**  
 P.O.Box 1140 · D-59914 Brilon  
 Bontkirchener Straße 1 · D-59929 Brilon-Hoppecke  
 Phone +49 29 63 61-0 · Fax +49 29 63 61-2 70  
 www.hoppecke.de · info@hoppecke.com

 **HOPPECKE**  
**POWER FROM INNOVATION**