

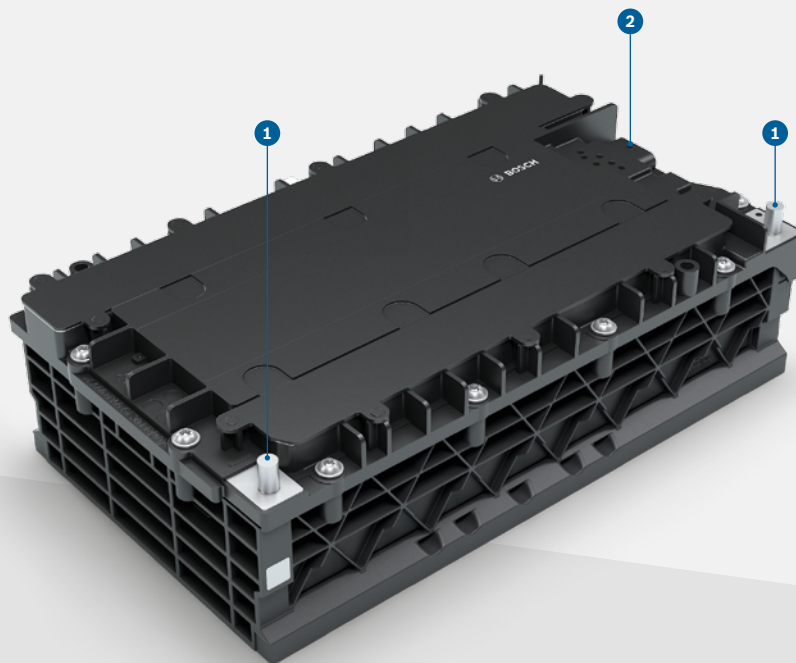
Low-voltage hybrid systems

48V battery



BOSCH

Invented for life



PRODUCT BENEFITS

- ▶ Compact battery design enables flexible mounting e. g. underneath the seat
- ▶ Passive cooling enables noiseless operation and easier integration into the vehicle since no additional cooling supply is required
- ▶ Reliable cell performance and long lifetime, even at high operating temperature
- ▶ ASIL-C-compliant functional safety and easy integration into electronic system architectures guaranteed

- 1 48V terminal
- 2 CAN connector



only

90 mm

The low height of the 48V battery allows flexible mounting within the vehicle.

TASK

Along with the boost recuperation machine and the DC/DC converter, the 48V battery is the central component in the 48V system. It stores recovered braking energy, subsequently delivering it directly to the electric drive and supplying the vehicle electrical system.

FUNCTION

During deceleration, the boost recuperation machine recovers energy which is then stored in the battery. This energy can be used to provide boost assist or for the stabilization of the boardnet.

passive

Passive cooling enables a compact design and contributes to cost optimization.

noiseless

The 48V battery is nearly noiseless thanks to its passive cooling, which increases vehicle comfort.

TECHNICAL CHARACTERISTICS

| | |
|----------------------|-------------------------|
| Dimensions L × W × H | 309 mm × 175 mm × 90 mm |
|----------------------|-------------------------|

| | |
|--------|------|
| Weight | 6 kg |
|--------|------|

| | |
|----------|------|
| Capacity | 8 Ah |
|----------|------|

| | |
|----------------------------------|-------|
| Charge power ¹ (10 s) | 14 kW |
|----------------------------------|-------|

| | |
|-------------------------------------|-------|
| Discharge power ¹ (10 s) | 11 kW |
|-------------------------------------|-------|

¹25 °C, 50 % SOC