

FACT SHEET

# BATTERY SOLUTION



It is becoming increasingly important to use the appropriate batteries to fit the different transport purposes. With the proper battery solution, drivers can ensure reliability during startup and increase their comfort when being on the road.

## Sales variants

### Battery capacity EFB Batteries

- 2BATT170** Enhanced Flooded Batteries extra 2x170 Ah
- 2BATT225** Enhanced Flooded Batteries extra 2x225 Ah

## Sales variants

### Battery capacity Traction Batteries GEN2

- ESS200K** Energy Storage System total energy 200 kWh
- ESS265K** Energy Storage System total energy 265 kWh
- ESS330K** Energy Storage System total energy 330 kWh
- ESS395K** Energy Storage System total energy 395 kWh

## Sales variants

### Battery capacity Traction Batteries GEN3

- ESS280K** Energy Storage System total energy 280 kWh
- ESS375K** Energy Storage System total energy 375 kWh
- ESS470K** Energy Storage System total energy 470 kWh
- ESS565K** Energy Storage System total energy 565 kWh

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Enhanced Flooded Batteries extra				
Battery capacity	Output current at -18 °C (cold start capacity)	Weight (battery set)	Vehicle	Sales variants
2 x 170 Ah	1000 A	92 kg	FL/FE	2BATT170
2 x 225 Ah	1150 A	118 kg	FE	2BATT225

### EFB batteries

The Volvo enhanced flooded batteries extra are designed to withstand tough climate and operating conditions. This means that they meet the high Volvo requirements when it comes to capacity, long lifetime, start output, low or no maintenance, vibration resistance and acid leakage.

The thick plate design inside the batteries enables a high capacity without compromising on start output.

They have a sealed construction, which reduces the water evaporation. This is beneficial in hot climates. Acid channel and mixing elements in each cell to improve the acid circulation.

The batteries are equipped with plugs that can be opened in case of refill is needed in hot conditions. The need for refill can be detected through the battery plug with status indicator on the battery. They also fulfil the high Volvo demands when it comes to cold conditions.

The batteries are up to 95% recyclable.

There are two different capacity levels, 170 Ah (2BATT170) and 225 Ah (2BATT225).



The Volvo enhanced flooded battery extra

### Volvo enhanced flooded battery extra

#### FEATURES AND BENEFITS

- Easy handling (Enhanced Flooded Battery Technology “EFB”, no handling with sulfuric acid needed).
- Extreme low water losses.
- Extreme low self-discharge (up to 12 months storage time (if fully charged and disconnected)).
- High stability/low corrosion.
- Lid with central degassing.
- Suitable for cranking.
- Improved acid circulation improves the battery lifetime and gives extended power delivery.
- A status indicator plug on top of the battery to see battery status.
- Battery plugs can be removed to top with distilled water if needed (hot markets).
- Strong cold start capacity.
- High charge acceptance.



Battery plug with status indicator



Status indicator

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### Traction batteries

To be able to offer the optimum solution for each customer a flexible system is available. The standard offer starts with three traction batteries and it enables to minimize environmental impact on batteries and maximize payload.

To specify the right amount traction batteries together with customer needs and routes always use ERS (Electric Range Simulator).

### SPECIFICATION

<b>Dimensions GEN2*</b>	
Length.....	1890 mm
Width.....	728 mm
Height.....	319 mm
Weight.....	575 kg
<b>Dimensions GEN3*</b>	
Length.....	1890 mm
Width.....	738 mm
Height.....	310 mm
Weight.....	605 kg

\*Including the bracket (excluding coolant).  
 GEN 2 traction batteries have each 66 kWh.  
 GEN 3 traction batteries have each 94 kWh.

Traction Batteries				
Battery capacity	Generation	Vehicle	Number of batteries	Sales variants
200 kWh	GEN2	FL/FE	3	ESS200K
265 kWh	GEN2	FL/FE	4	ESS265K
330 kWh	GEN2	FL	5	ESS330K
395 kWh	GEN2	FL	6	ESS395K
280 kWh	GEN3	FL/FE	3	ESS280K
375 kWh	GEN3	FL/FE	4	ESS375K
470 kWh	GEN3	FL	5	ESS470K
565 kWh	GEN3	FL	6	ESS565K

**Electric Truck battery/range disclaimer**  
 We recommend battery capacity required using key information such as the specification of the vehicle and body, the route/duty cycle you notified to us and the climate to predict the vehicle's effective range during a typical lifespan. Within the calculation there are a number of assumptions made which are intended to replicate a typical usage pattern. However, in common with all vehicles, actual range will be affected by the circumstances experienced by the vehicle in use including but not limited to, the payload, the route taken, the driving style of the driver, the weather and the usage of key electrical systems such as the lights, cab heaters and body mounted equipment. Therefore whilst the Volvo Truck Corporation, the members of the AB Volvo group of companies and its authorized network will use every effort to ensure the accuracy of the recommendation we do not accept any liability for the vehicle failing to achieve the predicted range.

