

DAF ELECTRIC

DAF One Pedal Drive

DAF One Pedal Drive offers the driver an intuitive and efficient way to use regenerative braking. Using only the acceleration pedal for both accelerating and braking, 10-30% of battery energy can be recuperated, depending on route and driving conditions.



What is DAF One Pedal Drive?

When DAF One Pedal Drive is active, the accelerator pedal of the vehicle is transformed into a control mechanism for both accelerating and (regenerative) braking. The effect of the pedal stroke position will vary depending on driving conditions to make the one pedal driving feel as smooth and intuitive as possible. If used correctly, through correct activation and anticipation, you will notice you will hardly need the brake pedal anymore in a DAF Electric truck.

ABOUT REGENERATIVE BRAKING

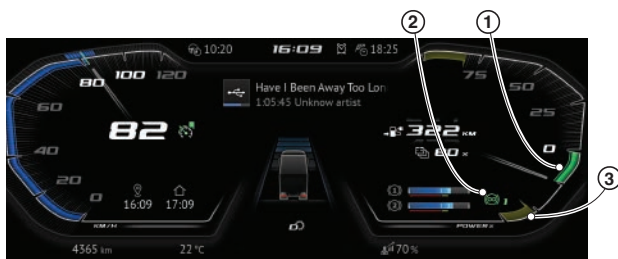
One of the unique features of electric vehicles is the recuperation of energy while braking. When activated, the electric motor operates as a generator to convert the kinetic energy (the energy of movement) of the vehicle into electric energy, which recharges the battery. Especially in urban environments (many start/stops) or when driving downhill, using regenerative braking as an endurance brake, DAF One Pedal Drive can recuperate a large amount of energy that otherwise would be lost. Additionally, the wear on service brakes is reduced massively!

Regenerative braking for DAF Electric vehicles is available through DAF One Pedal Drive, and by applying the braking pedal. Regenerative braking is only activated by the brake pedal when requesting heavy braking force.

The power of DAF One Pedal Drive

The amount of brake power available to DAF One Pedal Drive depends on various variables. The maximum power is determined by the motor power and battery capacity. Below you can find a table of the various motors and their respective maximum regenerative brake power.

Motor			Maximum power DAF One Pedal Drive			
3 Settings			Battery packs Installed energy			
33%	67%	100%	2 210 kWh	3 315 kWh	4 420 kWh	5 525 kWh
PACCAR EX-D1 170 kW			210 kW	270 kW	270 kW	270 kW
PACCAR EX-D1 220 kW				270 kW	270 kW	270 kW
PACCAR EX-D1 270 kW				270 kW	270 kW	270 kW
PACCAR EX-D2 270 kW				315 kW	350 kW	350 kW
PACCAR EX-D2 310 kW					350 kW	350 kW
PACCAR EX-D2 350 kW					350 kW	350 kW



The available power can be limited by certain conditions. Battery State of Charge, temperature, and the motor temperature may trigger the limitation, at which point yellow blocks will be visible in the Digital Instrument Panel. This yellow visual overlay (3) represents the amount of power not available. The green bar (1) shows the amount of energy that is currently being recuperated (braking power). The green telltale (2) shows the activation and, if applicable, regenerative braking power level.

How to use DAF One Pedal Drive

To activate regenerative braking, you can pull the right-hand steering column stalk. The spring return stalk increases the level of braking when pulled down. If held down longer, DAF One Pedal Drive will switch to the maximum level instantly, if held up longer it is deactivated directly.

FEATURES

- One pedal drive system for DAF Electric
- 210, 270, 315, or 350 kW brake power
- Maximum energy recuperation
- Optimal endurance brake
- Perfect solution for start/stop traffic
- Smooth driving controls

BENEFITS

- Increased efficiency
- Increased range
- Improved driveability
- Less service brake wear

