

### Smart

- › The Buck Boost DC / DC Charger has been specially designed to **fully control the charge cycle of an auxiliary battery**. It must be installed in vehicles equipped with smart alternator control (Euro5+, 6, 6.2); its installation also ensures **general alternator protection** in lithium systems.
- › To ensure that the vehicle's start-up battery is always charged first, the Buck Boost DC / DC charger supplies power to the auxiliary battery, but **only when the engine is running** (D+ detection).



### Adaptable

- › The Buck-Boost DC / DC charger can be installed in the vehicle's original power line (smart connect), **thanks to the By-Pass function of the built-in coupling relay, which enables auxiliary power to be maintained when the engine is turned off. It can also be connected directly to the vehicle's start-up battery (dedicated line).**
- › The charging profile of the auxiliary battery (Gel / AGM or LiFePO<sub>4</sub>), as well as the type of connection (smart connect\*, dedicated line\*\*) can be set-up **easily** by simply turning a switch.

### Specifications

		ACE-DCDC50A
Reference		10110-0050B
Applicable load voltage		> 12.5 V <sub>DC</sub>
Decoupling voltage discharge		< 11 V <sub>DC</sub> (vehicle battery) or < 12.2 V <sub>DC</sub> (D+)
Decoupling voltage charge		> 13.8 V <sub>DC</sub> (GEL / AGM) or > 14.65 V <sub>DC</sub> (LiFePO <sub>4</sub> )
Charge current	Smart connect*	50 A
	Dedicated line**	60 A
Standby consumption		50mA
Operating temperature		-20°C / +60°C
Weight		1.35 Kg
Dimensions		200 x 125 x 70 mm
Certifications		E57* 10R06/01*4128*00



Configuration	LED1	LED2
Switch 1 - ON: Dedicated line**	Off	Orange 3 sec.
Switch 1 - OFF: Smart Connect*	Orange 3 sec.	Off
Switch 2 - ON: GEL/AGM battery	Off	Green 3 sec.
Switch 2 - ON: LiFePO <sub>4</sub> battery	Green 3 sec.	Off

\***Smart connect:** Connection to the vehicle original electrical system

\*\***Dedicated line:** Installation of a specific power cable between the vehicle battery and the cell battery, with its length being calculated according to the distance separating the two pieces of equipment.