

Wh  
km

Avg.  
183



# SMARTBOX



## SAFE AND ECONOMICAL HOME CHARGING



### The Ratio Electric Smart charging solutions for at home

Ratio Electric has developed the Smart Box especially for the safe charging of electric vehicles at home or at work. The Smart Box protects every home against overload while the car charges at maximum speed.

The Smart Box is equipped with the latest techniques such as Load balancing and power sharing to ensure that the capacity of the power connection is handled intelligently.

### Load balancing

Load balancing is the technique that adjusts the charging speed to the remaining consumption in the house. A modern house is equipped with an induction hob, heat pump and other electrical appliances such as washing machine, dryer and dishwasher. The addition of all these appliances to the energy network increases the risk of overload. If this overload takes too long, there is a risk of complete power failure.

The supplied power coils are placed in the electrical cabinet around the incoming power lines and connected to the Smart Box via a sensor box. In this way, the total power of the house is continuously measured. In the event of an imminent overload, the charging of the car(s) is temporarily reduced.

### Power sharing

Power sharing allows up to four electric cars to be charged simultaneously on one power socket. The available power is distributed equally among the cars.

### Charging at no extra cost

All Smart functions can be configured via the display. No subscription with monthly fees is required. Due to the smart use of the available power, adding more weight to the power grid is often not necessary, resulting in significant savings on energy costs.

### Insight into consumption

The Smart Box is equipped with an integrated kWh meter. This allows for reading both the actual charging information and that of the last 5 sessions.

### Smart Box specifications:

<b>Load capacity:</b>	7.4kW and 22kW
<b>Authorization:</b>	Plug & play or key switch
<b>Connection:</b>	fixed charging cable or type 2 socket
<b>Fixed charging cable:</b>	straight (5m or 10m) or spiral with type 1 or type 2 connector
<b>Dimensions:</b>	400 x 250 x 105mm

**Ratio**  
ELECTRIC