

# SOLARBOX

## SMART CHARGE YOUR EV WITH YOUR HOME PV



**The Ratio Electric Solar Box is a very smart EV charger. Not only does it operate as our SmartBox EV charger, it can also charge your EV using 100% free energy generated from your own home Solar PV system.**

### **A clean and economical driving experience**

With the SolarBox you can now choose the amount of energy you want to draw from the grid while making optimal use of your PV system.

### **The SolarBox can be set in either Solar or Fast mode**

In the Solar mode you can charge your EV without use of the net. When the available current drops below the 6A minimum, vehicle charging will be stopped until sufficient solar energy is available to restart charging the vehicle.

This mode also allows you to add power from the grid so charging will always be at a minimum of 6A.

Fast mode means charging with full capacity to the maximum rate the charging station or the EV can support.

### **Other integrated functions**

#### **Load balancing:**

a technique that cleverly adjusts the charging speed of the EV charger to the remaining consumption in the house.

The total amount of consumed power in the house is measured continuously. In the event of overload the charging of one or more cars is temporarily reduced.

#### **Power sharing:**

allows up to 4 electric vehicles to be charged simultaneously on 1 power supply.

### **SolarBox specifications:**

Load capacity:	7,4 and 22kW
Safety:	AC & DC earth leakage protection
Authorization:	Plug & play or key switch
Connection:	fixed charging cable or type 2 socket
Fixed charging cable:	straight (5m or 10m) or coiled cable with type 1 or type 2 connector
Dimensions:	400 x 250 x 105mm

**Ratio**  
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