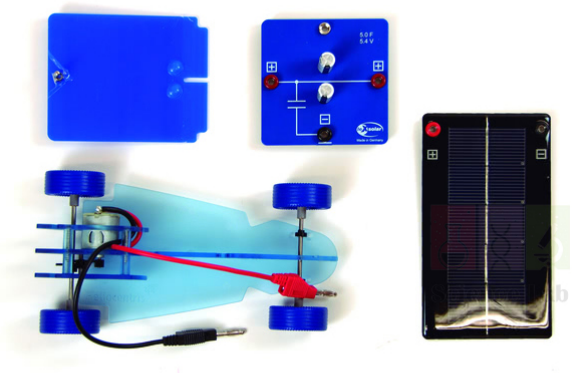
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**Product Name :**

Solar EMobility Basic

**Product Code :**

SLE/PHY/207



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## Description :

**Solar EMobility Basic** (Product Code: SLE/PHY/207) is an electric-mobility experiment kit used to let students drive an electric model car from a supercapacitor or directly from a solar module in primary and junior high school science lessons. It brings energy storage and an electric vehicle together in one kit, with a 2.5 V, 420 mA solar module and a 5.0F/5.4V capacitor module, and works alongside the Solar-Minikit Basic or Solar-Kit Basic. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

### Specifications

| Parameter | Detail |
|---|---|
| Solar module | 2.5 V, 420 mA |
| Capacitor module | 5.0F / 5.4V (supercapacitor) |
| Vehicle | Electric model car, powered by the supercapacitor or directly by the solar module in sunlight |
| Expansion | Combined with Solar-H2 Basic, a fuel cell car can be built |
| Also needed | Solar-Minikit Basic (primary school) or Solar-Kit Basic (junior high school), each containing the necessary accessories |
| Product code | SLE/PHY/207 |
| Manufacturer | Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India |

**Components:**

- 1 x solar module 2.5 V, 420 mA
- 1 x capacitor module 5.0F/5.4V
- 1 x electric model car
- 1 x insert EMobility basic
- 1 x layout diagram EMobility Basic
- 1 x info sheet initial startup
- 1 x carton

### What Is the Solar EMobility Basic Used For?

Students experience electric mobility close up. In one run they store energy in the capacitor module and watch the model car race across the classroom on that stored charge; in another they connect the solar module and drive the car straight from sunlight. Comparing the two raises the key questions of electric transport — why a vehicle needs storage, what happens when a cloud passes, and how storage and generation work together. As a solar energy science kit, India's primary and junior high classes can use it to introduce these ideas with simple, illustrative experiments.

For solar runs, work outdoors or in strong direct light, as the module depends on sunlight. Observe the polarity marked on the capacitor module and never charge it beyond its 5.4V rating. The layout diagram and start-up info sheet show how the parts fit together with your base kit.

### Wha

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