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Product Name :

Mounted Motor for Solar Cell

Product Code :

SLE/PHY/255



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Description :

Mounted Motor for Solar Cell (Product Code: SLE/PHY/255) is a small, low-consumptionelectric motor on a base, used to show light energy being converted into electrical and thenmechanical energy in school physics lessons. Science teachers pair it with a solar cell because itruns directly from the cell's output, and its spindle carries a 16mm diameter pulley that can raise amass of at least 4g. It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**,Ambala, India, with its other physics lab equipment for schools.

Specifications

Parameter	Detail
Type	Small, low-consumption electric motor, mounted on a base
Power source	Designed to run directly from the output of a solar cell
Pulley	Simple pulley of 16mm diameter on the motor spindle
Lifting capability	Raises a mass of at least 4g when powered by the solar cell
Base size	165mm x 100mm (the common base size of the Transfer Kit units)
Terminals	4mm socket terminals, where appropriate
System	One of the separately available units of the Transfer Kit, which shows conversions of one form of energy to another
Product code	SLE/PHY/255
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Solar Cell Motor Used For?

This motor completes an energy chain that starts with light: light falls on the solar cell, the cell produces an electric current, and the motor turns that current into motion. Because it is a low-consumption design, it can run from the modest output of a classroom solar cell with no battery or bench supply in the circuit, so students can see that the only energy input is light. It also works well as part of a physics demonstration kit on energy transfer.

For a lifting demonstration, tie a light thread to the 16mm pulley and hang a small mass (the motor can raise at least 4g); students then watch light energy end up as gravitational potential energy. Move the lamp closer or further away, or shade part of the cell, and the motor slows or stops, which links motor speed to light intensity. Strong sunlight or a bright lamp gives the clearest result.

What to Specify When Ordering

- Whether you need the motor alone or together with the Mounted Solar Cell that powers it
- Which other separately available Transfer Kit units you want, so the set matches your lesson plan
- The number of motor units per lab or per student group
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