

# Solar Energy Motor & Fan



## EM3732-001

### Description:

A self contained solar energy driven fan with physical protection against damage to fan and motor. Complete with solar cell and ON/OFF and FORWARD/REVERSE slide switches.

Unit is specially designed to be rugged for classroom use and to be reliable for many years. Operates from sunlight or strong incandescent light. Under poor or dull light conditions, the fan may not start but may run if started by gently beginning the rotation with a finger. The connection system and the printed circuit board used for making the connections is clearly visible but is designed to be resistant to physical damage.

### Light Sources:

The unit will not operate from fluorescent lights because the average light intensity is low because they are actually turning on and off 100 times per second. Incandescent lamps with a power of about 75 to 100 watts provide good results and lamps with inbuilt reflectors provide better results at lower powers and are cooler.

Sunshine provides the best results because the colour of sunlight provides better cell efficiency than an incandescent light source. The predominant colour of incandescent lamps is red, whereas the sunshine contains also the shorter blue wavelengths.

IECs 12V 20W Microscope Lamp is an excellent and cool light source LB2162-001

### Caution:

Do not place high power incandescent lamps close to the cell for long periods or the heat will cause softening, bending or other damage to the cell.

Length: 122mm	Width: 88mm	Height: 90mm	Weight: 220g
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Designed and Manufactured in Australia

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