

## SPECIAL NOTE

Hubi Work can deliver a maximum of 3.5A at any one time, so if all the power sockets are used and the combined current exceeds 3.5A, Hubi Work will shut down to protect its circuits.

To reset Hubi Work, remove the solar panel from the Hubi and all cables from the front. Use the reset tool provided in this kit (or a paperclip) and insert it into the reset socket (Fig 1, 16) on the front of the Hubi, pressing once to reset the unit. Next, reconnect the solar panel to the Hubi and once daylight activates the solar panel, the unit will reset.

The Hubi is not designed to work with an inverter and should not be connected to one. Doing so may cause damage to the Hubi.

## 8. Expanding Hubi Work

If longer illumination times are needed, both Hubi Work models can achieve this with the addition of the expansion kits SMEX01 or SMEX02. These kits contain an additional solar panel that daisy-chains to the supplied panel. The expansion kits come complete with additional lights and cables.

If more power is needed, an expansion hub HUBI1010AE can be purchased for Work 64. The additional hub is supplied with a linking cable to join the two hubs - see note 4.

## 9. Warning

Keep Hubi away from fire and don't allow it to get wet. Any severe shock or impact to the unit may cause damage and invalidate the warranty. It is strictly forbidden to dismantle Hubi except by Solar Technology personnel or agents appointed by Solar Technology. Any sign of tampering will result in the termination of the warranty.

## 10. Warranty

The solar panel is supplied with a 10-year warranty; all other items carry a 2-year warranty.

Should a failure occur during this time, Solar Technology International Ltd will, at its discretion, repair or replace any faulty part. Solar Technology International Ltd does not accept liability for any 3rd party damage, however caused, or any costs associated with the return of faulty products.

## 11. Optional accessories

Solar Technology supplies a range of accessories for Hubi, please visit [www.solartechnology.co.uk](http://www.solartechnology.co.uk)

## Frequently Asked Questions

- **Why does the solar panel never seem to charge Hubi fully?**  
Check the panel is not shaded and that it is outdoors. If indoors, even against a glass window, the panel's charging capability is significantly reduced. Also, remember that in winter, longer charge times occur due to decreased light levels.
- **Why does the power indicator on Hubi never show 4 bars?**  
This does not necessarily signify that the Hubi is not full. LEDs are indicative of the charge level rather than an exact representation, see Section 6.
- **Is there any other way to charge up Hubi other than solar?**  
There are two options: charge by mains wall plug or charge by 12v auto plug – see [www.solartechnology.co.uk](http://www.solartechnology.co.uk) and look under Hubi Accessories.
- **What happens if Hubi gets wet?**  
Hubi is not water-resistant, although it is very robust and designed for use in external outbuildings. Should it get wet, disconnect it from the solar panel and all other devices, and let it dry naturally indoors for at least one week. If it recovers, it can be used as normal. However, if it does not recover, then please contact us to enquire about our repair service.
- **What if I break something?**  
If the Hubi has been damaged, please contact us to enquire about our repair service.
- **I plugged a device into Hubi, and it instantly stopped working. What do I do?**  
In this instance, Hubi's sockets have been overloaded. The Hubi can only deliver up to 3.5A; if more is demanded, it will automatically shut down to protect its circuits from overload. To reset the Hubi, disconnect all cables and follow the instructions in the 'Special Note'.



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Solar  
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Without boundaries

Hubi® Work



User manual

## Solar Power Station

### Models/Kits:

Hubi Work 16, Hubi Work 64 and Hubi Work 64 Expansion Hub

This user manual will help you understand how the Hubi works, how to get the best from it, and just as importantly, its limitations.

Important: please read before first use.

Hubi is a practical power station that uses its solar panel to charge the unit. This power can then be used to run lighting options or other electronic devices via the sockets on the front panel of the Hubi. Make sure the Hubi is fully charged before you need to use it by positioning the solar panel outside and connecting its cable to the port labelled 'Solar In' (17) on the BACK of the Hubi. Alternatively, a mains charge adaptor can be purchased as an accessory from our website – [www.solartechnology.co.uk](http://www.solartechnology.co.uk)



**Specification**  
**Hubi Work 16** Part nos. SMH001 (LED strip) & SMH001B (LED bulb)

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|---|---|
| <p>1 x Hubi Power Hub includes:</p> <ul style="list-style-type: none"> <li>• 2,000mAh/12V lithium battery pack (1) with intelligent charge electronics</li> <li>• 1 x 12V auto socket output – Max 3A (2)</li> <li>• 2 x 12V lighting jack (3)</li> <li>• 2 x USB socket outputs - max 2A (for charging 5V devices - phones, tablets etc.) (4)</li> <li>• Light on/off switch (5)</li> <li>• Main power on/off switch (6)</li> <li>• Battery power indicator (7)</li> <li>• Solar charging indicator (8)</li> </ul> | <ul style="list-style-type: none"> <li>• Battery power indicator (7)</li> <li>• Solar charging indicator (8)</li> <li>• Reset button (16)</li> </ul> <p>1 x 5W premium crystalline 12V solar panel (10) and 2.5m cable to plug into Hubi (11)</p> <p>1 x Solar panel bracket (12)</p> <p>1 x 300 Lumen LED strip (13) or LED bulb + holder (not shown)</p> <p>1 x 5m cable from hub to LED strip (14)</p> <p>Cable fixings (15)</p> <p>User manual (20)</p> |
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**Hubi Work 64** Part nos. SMH002 (LED strip) & SMH002B (LED bulb)

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| <p>1 x Hubi Power Hub includes:</p> <ul style="list-style-type: none"> <li>• 10,000mAh/12V lithium battery pack (1) with intelligent charge electronics</li> <li>• 1 x 12V auto socket output – Max 3A (2)</li> <li>• 2 x 12V lighting jack (3)</li> <li>• 2 x USB socket outputs - max 2A (for charging 5V devices - phones, tablets etc.) (4)</li> <li>• Light on/off switch (5)</li> <li>• Main power on/off switch (6)</li> <li>• Battery power indicator (7)</li> <li>• Solar charging indicator (8)</li> <li>• Battery power indicator (7)</li> </ul> | <ul style="list-style-type: none"> <li>• Solar charging indicator (8)</li> <li>• Reset button (16)</li> </ul> <p>1 x 10W premium crystalline 12V solar panel (10) and 2.5m cable to plug into Hubi (11)</p> <p>1 x Solar panel bracket (12)</p> <p>4 x 300 Lumen LED strips (13) or LED bulb + holder (not shown)</p> <p>1 x 5m cable from hub to LED strip (14)</p> <p>3 x 2.5m cables to interconnect LED strips (not shown)</p> <p>Cable fixings (15)</p> <p>User manual (20)</p> |
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**Hubi Work 64 Expansion Kits**

Part No. SMEX01 (strip) / SMEX01B (bulb)      Part No. SMEX02 (strip) / SMEX02B (bulb)

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|--|---|
| <p>1 x 5W solar panel + expansion cable</p> <p>1 x 300 Lumen LED strip or LED bulb + holder</p> <p>1 x 2.5m interconnect cable</p> | <p>1 x 10W solar panel + expansion cable</p> <p>2 x 300 Lumen LED strips or LED bulbs + holders</p> <p>2 x 2.5m interconnect cables</p> |
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**1. Identifying the best location for the Solar Panel**

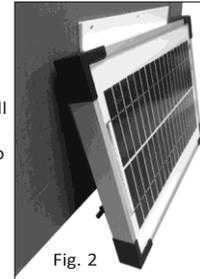
The solar panel is designed for permanent outdoor use (please don't position the panel behind a window as this can reduce its effectiveness). There is a bracket in the kit with fixings which is designed to hold the panel at a steep angle (ideal for winter charging) when positioned against a wall. You need to select a wall where the solar panel won't interfere with your day-to-day use of the building but also bear in mind the hub needs to be within 2.5m of the panel.

**NOTE** – if the Hubi Work needs to be located further from the solar panel than 2.5m, a 5m or 2.5m extension cable can be purchased from [www.solartechnology.co.uk](http://www.solartechnology.co.uk)

The ideal solar panel position is on a south-facing unshaded wall but good power generation will still be achieved anywhere from due east to due west (in the southerly half of the compass). Avoid north-facing walls and heavily shaded areas.

**2. Fixing the Solar Panel**

The panel frame is drilled, and these holes will match those on the bracket. First, attach the solar panel to the bracket (see Fig 2) using the bolts and nuts provided, so the panel and the bracket are ready to be fixed to the wall in a landscape orientation. Use the screws provided to secure the panel and bracket to a wooden wall. If fixing to a wall made from other materials, Rawlplugs may be needed (not supplied). A hole will need to be drilled to thread the cable from the outside of the building to the inside. Once the cable is inside, it's a sensible precaution to fill the hole around the cable to prevent water ingress.



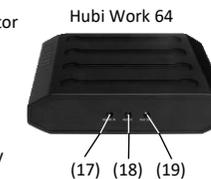
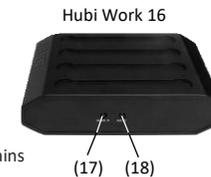
**3. Positioning Hubi**

The Hubi Work is not waterproof, so it needs to be protected from direct contact with water. It also needs protection against horses or other livestock. Therefore, choose a location that affords the best protection, for example, on a high shelf, behind a stud wall or in a cupboard. A powder-coated metal bracket can be purchased to protect the unit and allow the Hubi to be safely fixed to any wall, see [www.solartechnology.co.uk](http://www.solartechnology.co.uk) for details. The Hubi needs to be within 2.5m of the solar panel, but extension cables are available (see point 2).

**4. Connecting the Solar Panel to Hubi**

The solar panel is fitted with a 2.5m cable and connector plug. This inserts into the BACK of Hubi Work into the socket marked 'Solar In' (17). The Hubi Work will now be charged by the solar panel whenever there is daylight and is protected from overcharging by its smart control electronics. You can also charge the Hubi Work from the mains using a separate mains charger into 'Aux input' (18), which is available from [www.solartechnology.co.uk](http://www.solartechnology.co.uk)

If you have a Hubi Work 64 then you will also see a 3rd connector on the rear of the Hubi. This connector lets you connect multiple Hubi Work 64s, giving you more storage and outputs. Simply connect the 'Aux output' (19) on the primary unit (with the solar panel) to the 'Aux input' (18) on the secondary unit using the supplied cable. Ensure the power switch (6) on the primary unit is switched on to enable charging of the secondary Hubi.

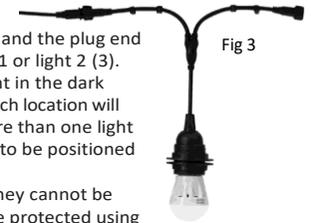


**5. Connecting the lights to Hubi**

The supplied Hub-to-LED cable is 5m long and the plug end connects to the Hubi socket marked light 1 or light 2 (3). It's worth temporarily positioning the light in the dark room before fitting, so you can decide which location will give the best illumination. If you have more than one light they can be daisy-chained to enable each to be positioned where desired.

The cables should be positioned so that they cannot be damaged by horses/livestock or should be protected using cable conduit or similar. Once the position has been decided, secure the cable using the cable fixings and connect the other end of the cable to the light.

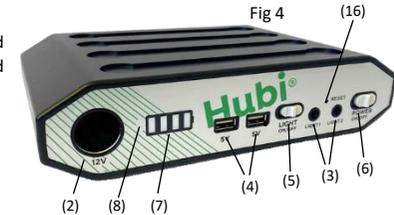
You may have either purchased this kit with an LED strip(s) or an LED bulb(s) and holder(s). If this kit contains an LED strip, this can be screwed to the ceiling or wall using the supplied screws. If it was purchased with the LED bulb and holder, this can be fixed in position using the cable clips (see Fig 3). A lampshade can be fitted to the bulb holder in the same way as you would at home.



**6. Operating the Hubi Work System**

To enable power to be delivered from the Hubi Work, you must slide the Power Switch (6) to the ON position. Instantly, you will see the power indicator (8) illuminate. The four segments (7) each represent capacity approximately as follows:

- 1 segment, up to 25% charged
- 2 segments, up to 50% charged
- 3 segments, up to 75% charged
- 4 segments, fully charged



To activate the lights, you must ensure the power switch (6) is on and then switch on the light switch (5).

If power is needed for charging or running electrical devices there are two USB sockets (4) capable of powering any 5V device such as a smartphone or tablet. There is a single 12V auto socket (2) to allow devices with a matching plug and compatible power demand to be powered by Hubi Work when the power switch is in the ON position.

Hubi will power most 12V devices with a car plug and 5V devices that have a USB connection, such as phones, tablets, torches, lights, and fans.

**Tip:** To maximise the power in your Hubi Work system when not in use always switch both ON/OFF buttons to the off position. The solar panel will still deliver a charge to the solar hub but the hub itself won't waste any of that power.

**SPECIAL NOTE ABOUT CHARGING THE HUBI:**

**Charging from new** - If there is one bar, or no bars showing on the Hubi battery indicator from new, it will be necessary to allow the solar panel to charge the battery before first use. Please ensure the Hubi is covered or indoors and the solar panel is outside and tilted at around 45-55 degrees, facing as near to the South as possible and in an unshaded location. Make sure all of the switches on the Hubi are OFF and the solar panel cable is plugged into the 'Solar In' (17) socket on the BACK of the Hubi. Once the Hubi shows at least 2 bars of charge it can be used. Thereafter, the solar panel will generate sufficient power in the Hubi each day, even during winter to provide light for 1 to 2 hours use each night. If longer lighting times are needed (in the winter) please consider adding a Hubi Work Expansion solar panel, which will provide twice the solar power, and halve the recharge time.

**Charge-up times from flat to full: Hubi Work 16 (summer 1 day / winter 4 days) Hubi Work 64 (summer 3 days / winter 12 days)**