



Barefoot Connect Series  
Product Catalogue



**Save money**  
No running costs

---



**Improve health**  
No smoke or burns

---



**Generate income**  
Charges phones and devices

---



**Improve education**  
Light for studying

---



**Save the environment**  
No kerosene or fumes

---

### Power Appliances



RADIO



PHONE



FAN



TV

The Barefoot Connect range of solar home systems is designed to meet the needs of households and businesses without reliable access to electricity. Barefoot Connect offers durable, convenient, and affordable solar home systems. All Connect systems include a quality power controller, efficient LED lights and a robust polycrystalline solar panel.

Barefoot Connect includes two USB outputs and one 12V socket enabling users to charge multiple phones and other devices simultaneously.

Barefoot Connect will provide light for four or five areas depending on the system.

The plug and play Connect kits come with everything needed for installation including wiring clips and wall-screws for neat and easy installation without requiring an electrician.

The Barefoot Connect controller includes advanced four-stage charging technology and protection circuits to extend the life of the battery.

The microprocessor controlled system also includes LED indicators to show how much power remains in the battery. As well as flashing the red “low power LED” Barefoot Connect will double flash all the lights if power is running low so the user is not left in the dark.

All Connect systems, including batteries, are maintenance free and have no running costs. The Connect series of products are backed by a comprehensive 24 month warranty. Connect products provide brighter and safer lighting and will save the user money every day.

## Product Highlights :

- The Barefoot Connect 600 is a solar powered lighting and phone charging solution. It provides light and charging power for your family home, shop or clinic.
- Simple plug-and-play installation does not require an electrician or trained service person. All necessary components are included for a fast, neat and easy installation.
- High tech controller extends the life of your battery and provides constant power through the USB and 12V outputs.
- The four bright LED lamps can light up four rooms at once providing light for studying, socialising or income generating activities.
- Two USB outputs allow charging of two phones or devices at once, keeping you and your family connected and contactable.
- Barefoot Power provides a 24 month warranty on all Connect systems and components.



BATTERY



12V 4Ah

SOLAR PANEL



6W

RUN TIME



4 LAMPS 6 HOURS



RADIO



PHONE



FAN

## Detailed Technical Specifications :

<b>Solar Panel</b>	
Rated output	6 Watts peak, at standard test conditions of 1.5ATM, 25°C, 1000W/m2
Construction	Tempered glass front, anodized aluminium frame, IP65 rated with 2 bypass diodes. Integrated 7m cable.
Weight	0.7kg
Dimensions	255 x 255 x 17mm
Max Power Voltage	17.6 V
Max Power Current	0.34 A
Open Circuit Voltage	21.4 V
Short Circuit Current	0.39 A
Operating Temperature	-40°C to +85°C

<b>Battery</b>	
	Maintenance free AGM sealed lead acid battery
Capacity	4Ah
Nominal Voltage	12V

<b>Power System Controller</b>	
Nominal Voltage	12V
Outputs	4 x 12V lighting outputs 2 x USB outputs 1 x 12V device output
Inputs	Max PV voltage: 24V Max PV Power: 30W Max PV Current: 2A
Protections	PV array short circuit, Overload, Load short circuit, PV reverse polarity
Battery management	4 stage charge controller High Voltage Disconnect: 15.5V Float Voltage: 13.8V Absorption Voltage: 14.4V Low Voltage Disconnect: 11.8V
Self-consumption	Active mode: 9-11mA Sleep mode: <1mA

<b>LED Lamps</b>	
Number of lamps	4 pendant lamps
Light output per lamp	75 lumens per pendant lamp
Inbuilt cable	3m per pendant lamp
Switch cables	Three 5m wires, one 7m wire

<b>Other Included Accessories</b>	
	USB to multiple phone charging kit USB Radio cable adaptor (for use with 6V radios) 12V Cigarette plug adaptor cable Mounting screws and clips

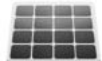
**Warranty** All components guaranteed for 24 months from date of purchase by first user. The warranty is not valid if product is misused or damaged by the user. For warranty terms and conditions please contact Barefoot Power at [info@barefootpower.com](mailto:info@barefootpower.com)

## Product Highlights :

- The Barefoot Connect 2000 provides two bright LED tubes to light up two main rooms, two energy efficient pendant lights and a security light.
- Two USB outputs allow charging of two phones or devices at once, keeping you and your family connected and contactable.
- Simple plug-and-play installation does not require an electrician or trained service person. All necessary components are included for a fast, neat and easy installation.
- High tech controller extends the life of your battery and provides constant power through the USB and 12V outputs.
- The Barefoot Connect 2000 is upgradable. Larger batteries and panels up to a total of 60W can be added to the system.
- Barefoot Power provides a 24 month warranty on all Connect systems and components.

**BATTERY**

12V 12Ah

**SOLAR PANEL**

20W

**RUN TIME**

5 LAMPS 6 HOURS



RADIO



PHONE



FAN



TV

### Detailed Technical Specifications :

<b>Solar Panel</b>	
Rated output	20 Watts peak, at standard test conditions of 1.5ATM, 25°C, 1000W/m2
Construction	Tempered glass front, anodized aluminium frame, IP65 rated with 2 bypass diodes. Integrated 0.5m cable and separate 6.5m panel cable.
Weight	3kg
Dimensions	540 x 300 x 17mm
Max Power Voltage	18 V
Max Power Current	1.11 A
Open Circuit Voltage	21.9 V
Short Circuit Current	1.1 A
Operating Temperature	-40°C to +85°C

<b>Battery</b>	Maintenance free AGM sealed lead acid battery * Supplied separately
Capacity	12Ah
Nominal Voltage	12V

<b>Power System Controller</b>	
Nominal Voltage	12V
Outputs	4 x 12V lighting outputs 2 x USB outputs 1 x 12V device output
Inputs	Max PV voltage: 24V Max PV Power: 60W Max PV Current: 4A
Protections	PV array short circuit, Overload, Load short circuit, PV reverse polarity, battery reverse polarity.
Battery management	4 stage charge controller High Voltage Disconnect: 15.5V Float Voltage: 13.8V Absorption Voltage: 14.4V Low Voltage Disconnect: 11.8V
Self-consumption	Active mode: 9-11mA Sleep mode: <1mA

<b>LED Lamps</b>	
Number of lamps	2 pendant lamps, 2 tube lamps, 1 security lamp
Light output per lamp	75 lumens per pendant lamp 290 lumens per tube lamp 40 lumens per security lamp with infrared and light sensors
Inbuilt cable	3m per pendant and tube lamp, 8m per security lamp
Switch cables	Two 5m cables, one 7m cable, one 9m cable

<b>Other Included Accessories</b>	
	USB to multiple phone charging kit USB Radio cable adaptor (for use with 6V radios) 12V Cigarette plug adaptor cable Mounting screws and clips

**Warranty** All components guaranteed for 24 months from date of purchase by first user. The warranty is not valid if product is misused or damaged by the user. For warranty terms and conditions please contact Barefoot Power at [info@barefootpower.com](mailto:info@barefootpower.com)

## Product Highlights :

- The Barefoot Connect 3000 is a complete solar home lighting system that provides abundant light from 4 LED tube lights and a security light for your safety as well as convenient phone charging.
- Simple plug-and-play installation does not require an electrician or trained service person. All necessary components are included for a fast, neat and easy installation.
- High tech controller extends the life of your battery and provides constant power through the USB and 12V outputs.
- The 4 bright LED tubes can light up four rooms or can be used together to light up a school room, dormitory, church, mosque, hall or other large room. The Barefoot Connect also includes a security light
- Two USB outputs allow charging of two phones or devices at once, keeping you and your family connected and contactable.
- The Barefoot Connect 3000 is upgradable. Larger batteries and panels up to a total of 60W can be added to the system.
- Barefoot Power provides a 24 month warranty on all Connect systems and components.





## Detailed Technical Specifications :

<b>Solar Panel</b>	
Rated output	30 Watts peak, at standard test conditions of 1.5ATM, 25°C, 1000W/m2
Construction	Tempered glass front, anodized aluminium frame, IP65 rated with 2 bypass diodes. Integrated 0.5m cable and separate 6.5m panel cable.
Weight	4kg
Dimensions	670 x 420 x 30mm
Max Power Voltage	18 V
Max Power Current	1.67 A
Open Circuit Voltage	21.9 V
Short Circuit Current	1.79 A
Operating Temperature	-40°C to +85°C

<b>Battery</b>	
	Maintenance free AGM sealed lead acid battery * Supplied separately
Capacity	24Ah
Nominal Voltage	12V

<b>Power System Controller</b>	
Nominal Voltage	12V
Outputs	4 x 12V lighting outputs 2 x USB outputs 1 x 12V device output
Inputs	Max PV voltage: 24V Max PV Power: 60W Max PV Current: 4A
Protections	PV array short circuit, Overload, Load short circuit, PV reverse polarity, battery reverse polarity.
Battery management	4 stage charge controller High Voltage Disconnect: 15.5V Float Voltage: 13.8V Absorption Voltage: 14.4V Low Voltage Disconnect: 11.8V
Self-consumption	Active mode: 9-11mA Sleep mode: <1mA

<b>LED Lamps</b>	
Number of lamps	4 tube lamps, 1 security lamp
Light output per lamp	290 lumens per tube lamp 40 lumens per security lamp with infrared and light sensors
Inbuilt cable	3m per pendant lamp, 8m per security lamp
Switch cables	Two 5m cables, one 7m cable, one 9m cable

<b>Other Included Accessories</b>	
	USB to multiple phone charging kit USB Radio cable adaptor (for use with 6V radios) 12V Cigarette plug adaptor cable Mounting screws and clips

**Warranty** All components guaranteed for 24 months from date of purchase by first user. The warranty is not valid if product is misused or damaged by the user. For warranty terms and conditions please contact Barefoot Power at [info@barefootpower.com](mailto:info@barefootpower.com)

## Barefoot Connect 600 Installation Instructions

**IMPORTANT:** The system will only activate for the first time when the solar panel is in full sun and plugged into the controller.

1. Using the included wall screws, install the Barefoot Connect controller indoors with indicator lights visible and the USB ports accessible.

**IMPORTANT:** Barefoot Connect controller must not be installed outdoors.

2. Install the solar panel on the roof in a position that receives full sunshine all day.

3. Plug the solar panel into controller.

4. When charging, the battery status LEDs will flash.

5. Install lamps in convenient locations and connect the switch wires from lamps to the controller.

6. Attach wires to the walls using the included wire mounting clips.

**Your Barefoot Connect is ready to use.**

7. The four LEDs indicate battery status. Ensure that the system is charged until the green LED illuminates at least once a week. The green LED indicates 100% charge - it is not critical to reach 100% charge every day.

8. The red LED indicates low battery. The lamps will also double flash when there is approximately 20 minutes of power remaining.


9. If the controller is not in use for 10 minutes, the LEDs turn off to save power.

10. After 72 hours of inactivity (no use or charging) the controller will enter factory sleep mode to conserve power. The solar panel will need to be placed in full sun and plugged into the controller to reactivate.

11. Barefoot Connect has automatically resetting fuses. If the USB, 12V output or lamps stop working, unplug the device and wait five minutes before trying again.

12. If the system does not reset unplug all outputs and the solar panel. Wait one minute and refer back to "Step 3".

**WARNING!** The included radio cable is reversed polarity and must only be plugged into 6V radios.

The radio cable adaptor is marked with the  icon and should be plugged into the USB output via the mobile phone charging cable.

**WARNING!** The radio cable must not be used to power any phone or other device.

## Barefoot Connect 620, 2000, 2020, 3000 Installation Instructions

1. Using included wall screws, install the Barefoot Connect controller indoors with indicator lights visible and the USB ports accessible.

**IMPORTANT: Barefoot Connect controller must not be installed outdoors.**

2. Install the solar panel on the roof in a position that receives full sunshine all day.

3. Install the battery in a convenient location and attach cable clips to the battery terminals. Ensure the red clip is attached to the positive (+) battery terminal and the black clip attached to the negative (-) battery terminal. Plug the other end of the battery cable into the battery input on the controller.

4. Plug the solar panel into controller.

5. When charging, the battery status LEDs will flash.

6. Install lamps in convenient locations and connect the switch wires from lamps to the controller.

7. Attach wires to the walls using the included wire mounting clips.

**Your Barefoot Connect is ready to use.**

8. The four LEDs indicate battery status. Ensure that the system is charged until the green LED illuminates at least once a week. The green LED indicates 100% charge - it is not critical to reach 100% charge every day.

9. The red LED indicates low battery. The lamps will also double-flash when there is approximately 20 minutes of power remaining.

10. If the controller is not in use for 10 minutes, the LEDs turn off to save power.

11. Barefoot Connect has automatically resetting fuses. If the USB, 12V output or lamps stop working, unplug the device and wait 5 minutes before trying again.

12. If the system does not reset unplug all outputs, battery, and the solar panel. Wait one minute and refer back to "Step 3".

**WARNING! The included radio cable is reversed polarity and must only be plugged into 6V radios.**

The radio cable adaptor is marked with the  icon and should be plugged into the USB output via the mobile phone charging cable.

**WARNING! The radio cable must not be used to power any phone or other device.**