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LEADER IN INDUSTRIAL TOOLS & EQUIPMENT

Technical sheet



Barefoot Connect 3000 Solar Power System

Marque: BAREFOOT

Ref Product: wire:BF-Connect3000

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Description
Barefoot Connect 3000 Solar Power System
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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.
Technical specification
SOLAR PANEL
Rated output: 30 Watts peak, at standard test conditions of 1.5ATM, 25C, 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: 4 kg
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
BATTERY (Maintenance free AGM SLA battery)
CAPACITY: 24Ah
NOMINAL VOLTAGE: 12V
POWER SYSTEM CONTROLLER
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
- Upper charging limit: 14.4V
- Absorption Voltage: 14.4V
- Float Voltage: 13.8V
- Low Voltage Disconnect: 11.8V
SELF-CONSUMPTION:
- Active mode: 9-11mA
- Sleep mode: <1mA
LED TUBE LAMPS
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 pendant lamp, 8m per security lamp
SWITCH CABLES: 2 x 5m cables; 1 x 7m cable; 1 x 9m cable
OTHER INCLUDED ACCESSORIES
USB to multiple phone charging kit
USB radio cable adaptor (for use with 6V radios)
12V cigarette plug adaptor cable
Mounting screws and clips