**Solar Sun World PowerHub**

**Renewable**

**Backup Power System**

**Watts**

**1800**

**A Clean, Green, Backup Power Solution**

The PowerHub is a combination of an inverter/charger module capable of delivering

up to 1800 watts of household power.

**It is the first backup power solution to operate**

**with solar and wind inputs.**

Power from a generator or the utility grid can also be used with

the PowerHub system to recharge its batteries. The PowerHub provides an affordable, high-

output, primary power solution for an off-grid cottage or cabin, as well as backup power for

grid-connected homes when the power goes out. It is scalable up to 400 amp-hours of energy,

allowing customers to build their system based on their power requirements.

Never worry about running out of power – renewable power sources, solar and wind, sustain

the PowerHub’s battery charge indefinitely

An excellent alternative to a generator – designed for indoor use, with no fuel, fumes or noise

Add it to a grid-tie solar energy system for backup power

**Product Features**

Modified sine wave inverter/charger with battery box

The battery box stores up to 200 amp-hours of battery power

(

single battery box included; batteries purchased separately

)

A second battery may be connected to double the battery capacity

(

additional battery box and batteries sold separately

)

Designed to include a generator as part of the system; generator power can pass

through the unit to the AC outlets, and recharge the batteries

Integrated transfer switch

40-

amp three-stage charger

Four AC outlets with hardwire option

Two DC inputs for solar and/or wind connections

Full-feature LED display for system monitoring

**Solar Sun World**

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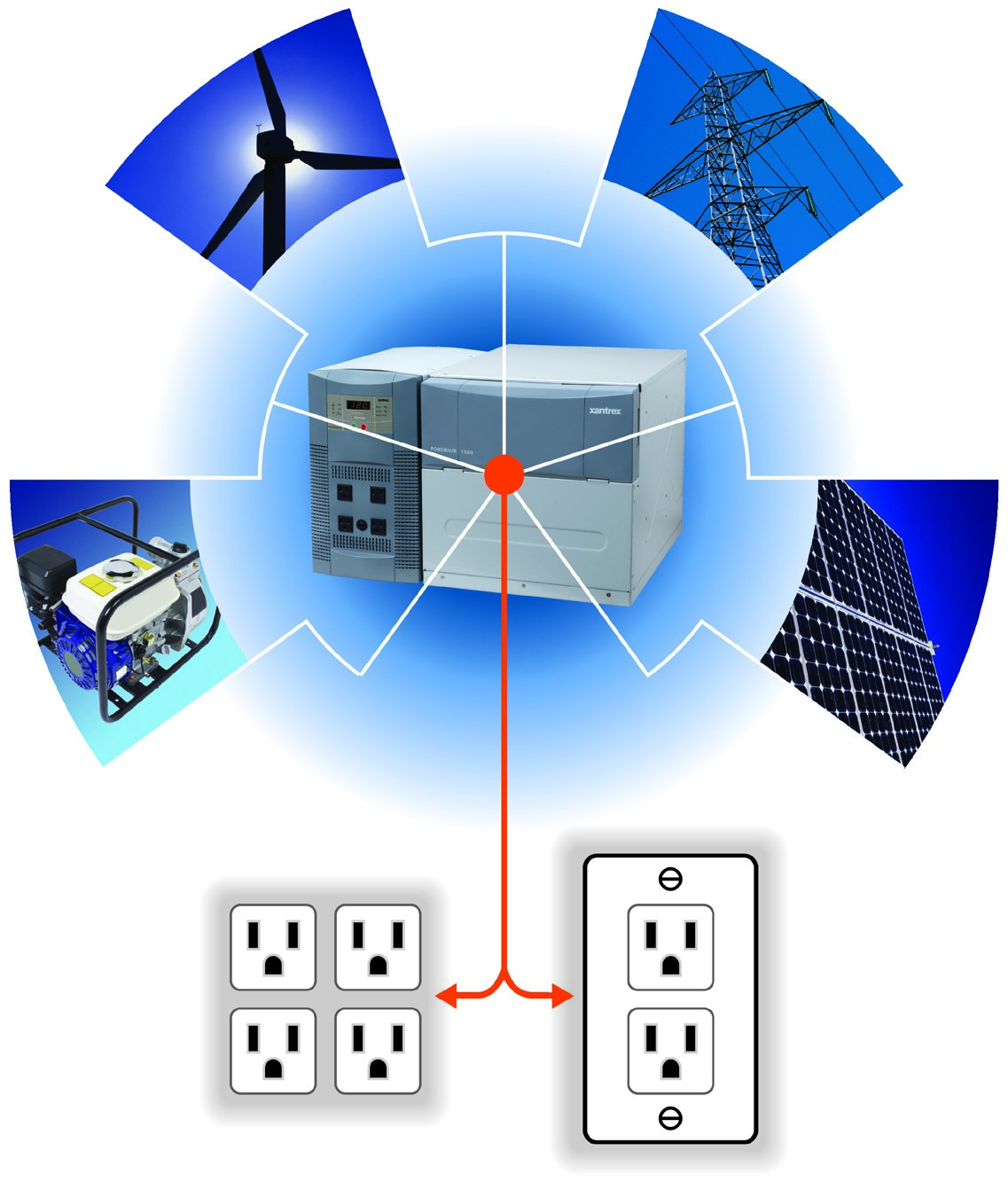
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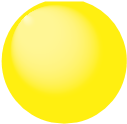
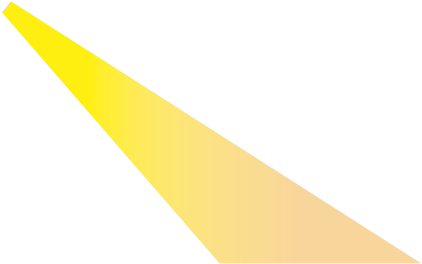
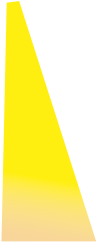
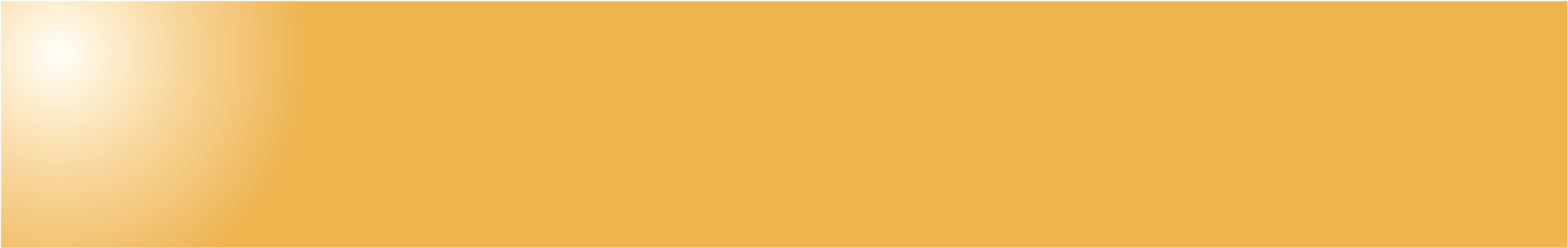
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| **Battery Charger Specifications** |  |
| **Output current** | 0/10/40 A |
| **Output voltage** |  |
| **Charge** | 14.2 Vdc |
| **Float** | 13.7 Vdc |
| **Recharge** | 12.5 Vdc |
| **AC input voltage** | 115 Vac 50/60 Hz |
| **Charger efficiency** | 80% approximate |
| **Charging type** | Three-stage |
|  |  |

|  |  |  |
| --- | --- | --- |
| **PowerHub 1800 Runtimes (single battery box with 200 AH battery)** | | |
| **Office Applications** | **Watts** | **Runtime** |
| **Laptop** | 65 | 22 h |
| **Inkjet printer** | 8 | 218 h 20 min |
| **Cell phone** | 5 | 396 h |
| **Table lamp** | 25 | 54 h 45 min |
| **17” LCD monitor** | 35 | 49 h 50 min |
| **Table light 40 W** | 40 | 43 h |
| **Table light 60 W** | 60 | 26 h 40 min |
| **Emergency Power Applications** | **Watts** | **Runtime** |
| **Cordless phone** | 5 | 396 h |
| **Clock radio** | 8 | 218 h 20 min |
| **13” CRT TV** | 50 | 30 h 10 min |
| **20” LCD TV** | 370 | 3 h 20 min |
| **Home Backup Power Applications** | **Watts** | **Runtime** |
| **18 cu. ft. fridge** | 120 | 15 h 25 min |
| **8.8 cu. ft. freezer** | 80 | 20 h 20 min |
| **Sump pump (1/2 hp)** | 300 | 4 h 29 min |
| **Home alarm system** | 5 | 396 h |
| **Microwave** | 1000 | 1h 43 min |
| **Coffee maker** | 1200 | 1h |



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