

# CleanArcPower

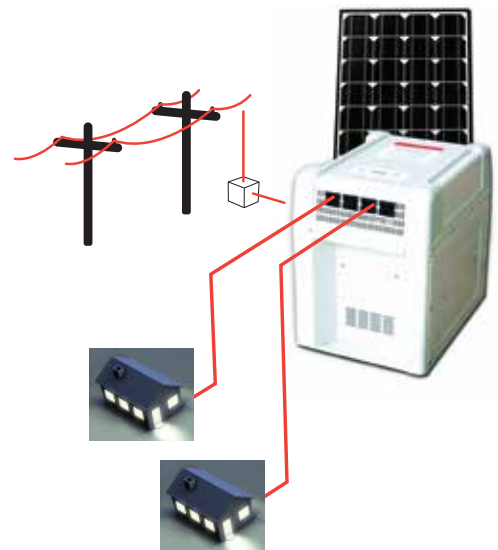
## HOME SOLAR KIT 400/800/1800

Home power systems provides the peace of mind that you will never run out of power. A complete line of portable plug-and-play backup batteries developed specifically for your home or business. Safe for indoor use, these rechargeable energy sources can run appliances, lights, communication devices and much more all from the power of the sun.



### The first complete home solar power kits on the market

- ✂ Separate models generate 400, 800, and 1800 Watts of Output
- ✂ Easily install anywhere
- ✂ Affordable backup power for the home
- ✂ AC household power available from the AC outlets to operate home
- ✂ Confidence of never running out of power
- ✂ Indefinite battery recharge capability
- ✂ Completely safe for indoor use with no fuel requirement
- ✂ Completely silent operation with no fumes
- ✂ Simple plug and play system with multiple AC outlets
- ✂ USB port (400, 800 models) for charging hand-held devices
- ✂ Each model contains a built-in Battery, AC charger, Solar Charger controller and Transfer Switch



# HOME SOLAR KIT 400/800/1800 SPECIFICATIONS

| Specifications   | Home Solar Series                      |        |        |
|--|--|--------|--------|
|  | HS1800                                 | HS800  | HS400  |
| <b>Inverter:</b>   |  |        |        |
| Continuous power   | 1800W                                  | 800W   | 400W   |
| Surge power  | 3600W                                  | 1600W  | 800W   |
| Output voltage   | 120 VAC *                              |        |        |
| Output waveform  | Modified Sinewave                      |        |        |
| AC receptacles (NEMA 5-15)                                 | 4                                      | 2      | 2      |
| Peak efficiency  | 90%                                    |        |        |
| No-load battery draw                                       | < 3W                                   |        |        |
| Transfer time  | < 30 ms                                |        |        |
| AC input protection  | 15A                                    | 15A    | 10A    |
| <b>AC Charger(built-in):</b>                               |  |        |        |
| Charger current  | 5A                                     | 2A     | 2A     |
| Charging stages  | three-stages (bulk, absorption, float) |        |        |
| <b>Solar Charger (built-in):</b>                           |  |        |        |
| Input Current  | 8 ADC maximum                          |        |        |
| Charging stages  | three-stages (bulk, absorption, float) |        |        |
| Maximum input voltage                                      | 26 VDC                                 |        |        |
| <b>5V USB:</b>   |  |        |        |
| Type   | N/A                                    | 750mA  | 750mA  |
| <b>Battery:</b>  |  |        |        |
| Type   | Sealed Lead Acid                       |        |        |
| Capacity   | 60Ah                                   | 40Ah   | 34Ah   |
| <b>Environmental:</b>                                      |  |        |        |
| Operating temperature                                      | 32 to 104 °F ( 0 to 40 °C )            |        |        |
| Storage temperature  | -4 to 140 °F ( -20 to 60 °C )          |        |        |
| <b>Solar Panel: (Included with HS 1800)</b>                |  |        |        |
| Peak Power (Pmax)  | 2 x 40W                                |        |        |
| Voltage (Vmp)  | 17.5 VDC                               |        |        |
| Open circuit voltage (VOC)                                 | 21 VDC                                 |        |        |
| Current (Imp)  | 2 x 2.29 A                             |        |        |
| * Unit also available in 230 VAC (HS1800i, HS800i, HS400i) |  |        |        |
| Specifications subject to change without notice            |  |        |        |
| <b>Estimated Recharging Time</b>                           |  |        |        |
| Using built-in charger                                     | 14.5 hrs                               | 24 hrs | 20 hrs |
| Using 80W solar panel                                      | 13 hrs                                 | 11 hrs | 9 hrs  |
| Using 40W solar panel                                      | 26 hrs                                 | 22 hrs | 18 hrs |



| Estimated Run Time                            | Home Solar Series |               |               |         |
|---|-------------------|---------------|---------------|---------|
|   | HS1800            | HS800         | HS400         |         |
| <b>Office Applications:</b>                   |                   |               |               |         |
| Cell phone                                    | 5W                | 95 hrs        | 65 hrs        | 55 hrs  |
| Inkjet printer                                | 8W                | 60 hrs        | 40 hrs        | 34 hrs  |
| 17" LCD monitor                               | 35W               | 15.5 hrs      | 10.5 hrs      | 9.2 hrs |
| Table lamp (40W)                              | 40W               | 12 hrs        | 8.5 hrs       | 7.2 hrs |
| Table lamp (60W)                              | 60W               | 8 hrs         | 5.5 hrs       | 4.6 hrs |
| Laptop  | 65W               | 7.5 hrs       | 5 hrs         | 4 hrs   |
| <b>Emergency Power Applications:</b>          |                   |               |               |         |
| Cordless phone                                | 5W                | 90 hrs        | 65 hrs        | 55 hrs  |
| Clock radio                                   | 8W                | 55 hrs        | 40 hrs        | 34 hrs  |
| 20" LCD TV                                    | 40W               | 13 hrs        | 9.5 hrs       | 8 hrs   |
| <b>Home Backup Power Applications:</b>        |                   |               |               |         |
| Home alarm system                             | 5W                | 90 hrs        | 65 hrs        | 55 hrs  |
| 8.8 cu. Ft. freezer                           | 80W               | 4.5 hrs       | N/A           | N/A     |
| 18 cu. Ft. fridge                             | 120W              | 3.5 hrs       | N/A           | N/A     |
| Sump pump (1/4hp)                             | 300W              | 65 mins       | 45 mins       | N/A     |
| 1/2" drill                                    | 700W              | 19 mins       | 13 mins       | N/A     |
| Microwave                                     | 1000W             | 20 mins       | N/A           | N/A     |
| Coffee maker                                  | 1200W             | 10 mins       | N/A           | N/A     |
| <b>How long will it provide power?</b>        |                   |               |               |         |
| Laptop, inkjet printer, modem, cordless phone | up to 10 hrs      | up to 6.5 hrs | up to 5.5 hrs |         |
| Cordless phone, 13" TV, Radio and Table lamp  | up to 3.3 hrs     | up to 2 hrs   | up to 1.6 hrs |         |
| 18.8 cu. ft. fridge and alarm system          | up to 3 hrs       | N/A           | N/A           |         |
| <b>Regulatory Approval:</b>                   |                   |               |               |         |
| Conforms to UL STD. 1778                      |                   |               |               |         |
| Certified to CSA STD. C22.2 No. 107.3-06      |                   |               |               |         |
| CE approval for 230 VAC model                 |                   |               |               |         |

## Dimensions (W x L x H):

HS 1800: 14.5 x 10.5 x 14"  
(368.3 x 267 x 356mm)

HS 800: 10.5 x 6.2 x 10"  
(267 x 158 x 254mm)

HS 400: 10.5 x 6.2 x 10"  
(267 x 158 x 254mm)

## Weight:

HS 1800: 76 lbs (35 kg)

HS 800: 34.4 lbs (15.6 kg)

HS 400: 31 lb (14 kg)

