

**1800W**



# Home Solar Kit

## Plug & Play Series

**HS 1800-60**



### Green Power for the rest of us

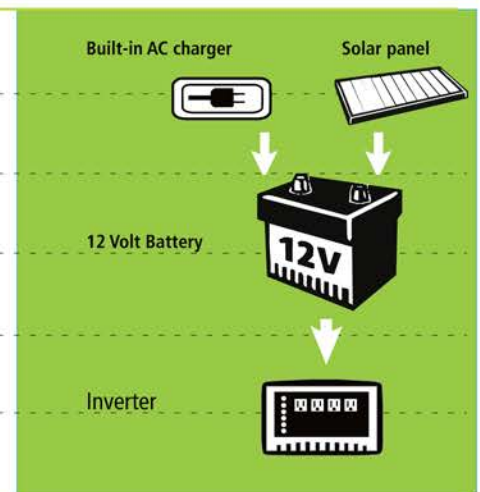
The first complete home solar power kit on the market

Generates 1800 watts of power

Easily installs anywhere

Affordable backup power for the home or cottage

Simple modular design - upgradable to meet all your needs



#### KISAE Home Solar Kit benefits include:

- confidence of never running out of power
- indefinite battery recharge capability
- no fuel requirements
- completely safe for indoor use
- completely silent operation with no fumes
- Add a back-up for grid-tie systems
- year-round, all-weather peace-of-mind
- simple plug & play system

#### Product Features:

- 1800 watts of power available from AC outlets to operate TV's, computers, lights, fans, radios, microwave ovens, vacuums, coffee makers and other home appliances and tools.
- 80 watts solar folding solar panel complete with mounting stand install your solar panel anywhere!
- Battery box that contains a 60Ah battery
- Additional battery boxes can be bought separately and added to your system provides for longer run times for your appliances.

- Designed with the future in mind - allows you to add solar panels and batteries to upgrade your system.
- Dimensions: (LxWxH)  
14 3/8" x 10 3/5" x 14" (36.5 x 26.9 x 35.6)
- Weight:  
76 lb (34.5 KG)
- 1 Year Warranty

# Kisae Home Solar Kit

## Inverter Specifications

Maximum power	1800 W
Continuous power	1440 W
Surge rating	2880 W
Output current - continuous	12 A
Output voltage	120 Vac
Output waveform	Modified sine wave
Peak efficiency	90%
No-load battery draw (unit off)	<3W
Input operating voltage range	10.5 to 15.0 Vdc
Fuse (user replaceable): Battery box	10 x 20 A
Transfer time	<40 milliseconds
Operating temperature range	32°F to 104°F (0°C to 40°C)
Storage temperature range	-4°F to 140°F (-20°C to 60°C)
AC receptacles	4
AC input	15 A, NEMA S-16 type
AC input protection	15 A supplementary breaker

Specifications subject to change without notice

## Home Solar Kit Runtimes (single battery box with 60 Ah battery)

Office Applications	Watts	Runtime
Laptop	65	5 hrs.
Inkjet printer	8	50 hrs.
Cell phone	5	90 hrs.
Table lamp	25	17 hrs.
17" LCD monitor	35	12 hrs.
Table light 40 W	40	10 hrs.
Table light 60 W	60	6 hrs.

Emergency Power Applications	Watts	Runtime
Cordless phone	5	90 hrs.
Clock radio	8	50 hrs.
13" CRT TV	50	7 hrs.
20" LCD TV	370	45 min.

Home Backup Power Applications	Watts	Runtime
18 cu. ft. fridge	120	3.5 hrs.
8.8 cu. ft. freezer	80	4.5 hrs.
Sump pump (1/2 hp)	300	55 min.
Home alarm system	5	90 hrs.
Microwave	1000	20 min.
Coffee maker	1200	10 min.

### How long will it provide power?

	Runtime
Laptop, inkjet printer, modem, cordless phone	Up to 10 hrs.
Cordless phone, 13: TV, radio and table lamp	Up to 3.5 hrs.
18.8 cu. ft. fridge and alarm system	Up to 3 hours

## AC Charger Specifications

Output current	5A
Regulated output voltage	
Charge	14.8 Vdc
Float	13.5 Vdc
Recharge	12.5 Vdc
AC input voltage	120 Vac 50/60 Hz
Charger efficiency	80% approximate
Charging type	three-stage (bulk, absorption, float)

## Solar Panel Charger Specification

Input current	8A maximum
Regulated output voltage	
Charge	14.8 Vdc
Float	13.5 Vdc
Recharge	12.6 Vdc
DC input voltage (Maximum)	26 Vdc
Charge efficiency	>95%
Charging type	three-stage (bulk, absorption, float)

## Solar Panel

Peak power (Pmax)	2 x 40 W
Open circuit voltage (Voc)	21.0 Vdc
Voltage (Vmp)	17.5 Vdc
Current (Imp)	2 x 2.29 A
Short circuit Current (Isc)	2 x 2.47 A

## Battery

Type	Deep cycle, sealed lead acid
Capacity	12V, 60 Ah

## Options (not included in kit)

External Battery Box (60A)	HS BX-60-00
Heavy Duty DC Cable(For connection to user's battery bank)	HS CB-175-03
50' Solar Panel extension Cable	HS CB-45-50

## Regulatory Approval

Conforms to UL STD. 1778  
Certified to CSA STD. C22.2 No. 107.3-05

