

# Home Power Systems



The ideal safeguard for your home or business when the power goes out.

KISAE Home Power Systems are a complete line of packaged plug-n-play backup power systems. Each provides power from internal batteries for emergency relief during power outages. Intended for home or business use, the batteries can be recharged and replenished by either utility or solar power.

**KISAE Home Power Systems offer the following benefits:**

**Confidence** of never running out of power.

**Indefinite** battery recharge capability.

**No Fuel Requirements**

**Completely Safe** for indoor use.

**Silent Operation** and no fumes.

**Regulatory Approved** cETLus for North America and CE approved for Europe.



## Home Power Systems



Stand-Alone Power Systems  
Fully Contained Kit - Modular Designs  
Commercial / Residential Use

| Home Power Systems - Solar | 120 VAC Series |        |         | 230 VAC Series |         |          |
|----------------------------|----------------|--------|---------|----------------|---------|----------|
|                            | HS 400         | HS 800 | HS 1800 | HS 400i        | HS 800i | HS 1800i |

### AC Output

|                              | HS 400             | HS 800             | HS 1800            | HS 400i             | HS 800i             | HS 1800i            |
|------------------------------|--------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
| AC Output Power (Continuous) | 400W               | 800W               | 1800W              | 400W                | 800W                | 1800W               |
| AC Output Power (Peak)       | 800W               | 1600W              | 3600W              | 800W                | 1600W               | 3600W               |
| AC Output Voltage/Frequency  | 120VAC / 60 Hz     | 120VAC / 60 Hz     | 120VAC / 60 Hz     | 230VAC / 50 Hz      | 230VAC / 50 Hz      | 230VAC / 50 Hz      |
| AC Output Current            | 3.3A               | 6.7A               | 15.0A              | 1.7A                | 3.5A                | 7.8A                |
| AC Output Waveform           | Modified Sine Wave | Modified Sine Wave | Modified Sine Wave | Modified Sine Wave  | Modified Sine Wave  | Modified Sine Wave  |
| Peak Efficiency              | 90%                | 90%                | 90%                | 90%                 | 90%                 | 90%                 |
| AC Output Socket             | NEMA 5-15          | NEMA 5-15          | NEMA 5-15          | Euro, Australia, UK | Euro, Australia, UK | Euro, Australia, UK |

### DC Output

|                       | HS 400 | HS 800 | HS 1800        | HS 400i | HS 800i | HS 1800i       |
|-----------------------|--------|--------|----------------|---------|---------|----------------|
| USB Output            | 750mA  | 750mA  | Not Applicable | 750mA   | 750mA   | Not Applicable |
| 12V DC Lighter Socket | 15A    | 15A    | Not Applicable | 15A     | 15A     | Not Applicable |

### Display Panel

| Indicator             | Status  |
|-----------------------|---|
| Digital Display (LED) | Input Voltage, Output Power, Battery Capacity, Warning & Error Code |

### AC Charger (built-in)

|                              | HS 400        | HS 800        | HS 1800       | HS 400i        | HS 800i        | HS 1800i       |
|------------------------------|---------------|---------------|---------------|----------------|----------------|----------------|
| Charger Current              | 2A            | 2A            | 5A            | 2A             | 2A             | 5A             |
| AC Input Voltage / Frequency | 120Vac / 60Hz | 120Vac / 60Hz | 120Vac / 60Hz | 230Vac / 50 Hz | 230Vac / 50 Hz | 230Vac / 50 Hz |

### AC Transfer Switch

|                       | HS 400 | HS 800 | HS 1800 | HS 400i | HS 800i | HS 1800i |
|-----------------------|--------|--------|---------|---------|---------|----------|
| Transfer Time         | < 30ms | < 30ms | < 30ms  | < 30ms  | < 30ms  | < 30ms   |
| Transfer Relay Rating | 10A    | 10A    | 15A     | 5A      | 10A     | 10A      |

### Solar Charger (built-in)

|                       | HS 400        | HS 800        | HS 1800       | HS 400i       | HS 800i       | HS 1800i      |
|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Input Current         | 8A DC Maximum |
| Charger Stages        | Three-Stages  | Three-Stages  | Three-Stages  | Three-Stages  | Three-Stages  | Three-Stages  |
| Maximum Input Voltage | 26V DC        |

### Battery

| Type     | Deep Cycle Sealed Lead Acid |          |          |          |          |          |
|----------|-----------------------------|----------|----------|----------|----------|----------|
| Capacity | 12V 34Ah                    | 12V 40Ah | 12V 60Ah | 12V 34Ah | 12V 40Ah | 12V 60Ah |

### Regulatory Compliance

| Markings    | HS 400                       | HS 800                       | HS 1800                      | HS 400i        | HS 800i        | HS 1800i       |
|-------------|------------------------------|------------------------------|------------------------------|----------------|----------------|----------------|
| Conformance | cETLus<br>UL & CSA Standards | cETLus<br>UL & CSA Standards | cETLus<br>UL & CSA Standards | CE<br>LVD, EMC | CE<br>LVD, EMC | CE<br>LVD, EMC |

### Enclosure

|           | HS 400             | HS 800             | HS 1800             | HS 400i           | HS 800i           | HS 1800i          |
|-----------|--------------------|--------------------|---------------------|-------------------|-------------------|-------------------|
| Weight    | 31 lbs.            | 34.3 lbs.          | 76 lbs.             | 14.1 Kg           | 15.6 Kg           | 35.4 Kg           |
| Dimension | 10.5 x 6.2 x 10.0" | 10.5 x 6.2 x 10.0" | 14.5 x 10.5 x 14.0" | 270 x 160 x 260mm | 270 x 160 x 260mm | 365 x 370 x 355mm |

### Solar Panel (included with HS1800)

|                            |                               |
|----------------------------|-------------------------------|
| Peak Power (Pmax)          | 80W (2 x 40W) Monocrystalline |
| Voltage (Vmp)              | 17.5VDC                       |
| Open Circuit Voltage (VOC) | 21VDC                         |
| Current (Imp)              | 2 x 2.29A                     |



HS1800-60-00:  
1800W Home Solar Kit