

## UNINTERRUPTIBLE POWER SYSTEM (UPS)

Bright UPS 8000VA, 6000W, 220VAC 50/60Hz Input and 220VAC 50/60Hz Auto Sensing Output, Double Conversion, On Line, High Temperature, Isolated, Rugged UPS with Power Factor Correction for Military Applications.



Part # FA10140

Model # IHT8000RM-6KW-220VAC-ISOL-5060Hz-220-18BHS-6U

## FEATURES AND BENEFITS

### Rugged & Extreme Environments

All IntelliPower systems utilize circuit boards, chassis and components that are **specifically designed for extreme environments**. In today's marketplace, repackaged commercial products are often billed as "rugged" and/or "built for harsh environments". Each component in our systems is specifically selected or designed based upon proven performance in harsh indoor and outdoor applications.

### Cutting Edge Technology

Our digital, double conversion on-line UPS, power conditioner and frequency/voltage converter solutions utilize high-efficiency power switching and galvanic isolation which provides **ideal electrical output performance**. Systems are available with global voltage inputs & outputs, AC inputs & outputs and DC inputs & outputs. You will be able to utilize any power source.

IntelliPower offers power management software along with many standard communications protocols such as SNMP with OID and MIB Support, RS-232, Ethernet/IP – Common Industrial Protocol (CIP), MODBUS and Dry/Discrete Contacts. The sum total of these technological features equals the ultimate protection for your electronic equipment.

### Robust Product Portfolio

No other UPS company offers **2,000+ variations**. Utilizing IntelliPower's building block methodology, more product features and functionality are provided; without having to extend lead times or change proven designs. Over the past 25 years, IntelliPower has developed its electronics hardware, firmware, embedded software and enclosure technology in house, which provides us with a unique capability to meet virtually any of your application requirements to include completely sealed systems.

### Designed and Manufactured in the USA

The engineering and technological expertise within IntelliPower has enabled us to develop and field test products since 1988 to **100% user satisfaction**. For you, this translates into shorter lead times from design to shipping as well as personalized service and support. Our mission is to provide you with the highest standard of customer support and quality control.

### Military Standards Compliance

All product configurations are designed and manufactured to **meet military standards**. Systems have been and can also be certified by independent labs. Many standards are met in our standard build practices, some notable standards include MIL-STD-461F (Electromagnetic Interference EMI), MIL-STD-464C (Electromagnetic Environmental Effects EME), MIL-STD-1275D (DC Electrical Power Systems), MIL-STD-901D (Shock), MIL-STD-167-A (Vibration), MIL-STD-810G (Environmental; Altitude, Temperature, Humidity, Fungus, Sand & Dust, Rain), and MIL-STD-1399-300B (Interface requirements for AC devices; Voltage Transients (spikes), Frequency Transients, Harmonics, Power Factor). IntelliPower products are used in a wide range of key military programs within the Army, Air Force, Navy and Marines.

To find out more about IntelliPower capabilities, please visit our website at [www.intellipower.com/capabilities](http://www.intellipower.com/capabilities).

## CORPORATE HEADQUARTERS

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All products designed and manufactured in the U.S.A.



| <b>Uninterruptible Power System (UPS)</b>                        |   |
|--|---|
| <b>IP Part #:</b>  | FA10140   |
| <b>IP Model #:</b>   | IHT8000RM-6KW-220VAC-ISOL-5060Hz-220-18BHS-6U   |
| <b>Unit Description:</b>   | Bright UPS 8000VA, 6000W, 220VAC 50/60Hz Input and 220VAC 50/60Hz Auto Sensing Output, Double Conversion, On Line, High Temperature, Isolated, Rugged UPS with Power Factor Correction for Military Applications. |
| <b>SPECIFICATIONS</b>  |   |
| <b>Power Rating (VA, Watts):</b>                                 | 8000VA 6000W  |
| <b>Input AC Voltage (AC Voltage, tolerance):</b>                 | 220 (-15% +15%)   |
| <b>Input DC Voltage (DC Voltage, tolerance):</b>                 | N/A   |
| <b>Input Frequency (Hz, tolerance):</b>                          | 50/60Hz, (±5Hz)   |
| <b>Input Max Current (Amps):</b>                                 | 41.74Aac  |
| <b>Output AC Voltage (AC Voltage, tolerance):</b>                | 220, (±3%)  |
| <b>Output DC Voltage (DC Voltage, tolerance):</b>                | N/A   |
| <b>Output Frequency (Hz, follower/changer):</b>                  | Auto Sensing, 50/60Hz   |
| <b>Output Sync Requirements:</b>                                 | Synced within ±3Hz from the input frequency or fixed at 50/60Hz if outside of this range  |
| <b>Enclosure Type &amp; Size (type/rack unit, dimensions):</b>   | 6U, 10.5"H x 17"W x 26"D  |
| <b>Enclosure Material &amp; Finish (aluminum/steel, finish):</b> | Aluminum  |
| <b>Enclosure Airflow (front to rear/front to side/other):</b>    | Front-to-Rear   |
| <b>Enclosure – Special (IP65/Zone 1):</b>                        | N/A   |
| <b>Connector(s) AC Input (type, location, pin outs):</b>         | Terminal Blocks, L1, L2, Ground Lug   |
| <b>Connector(s) DC Input (type, location, pin outs):</b>         | N/A   |
| <b>Connector(s) AC Output (type, location, pin outs):</b>        | Terminal Blocks, L1, L2, Ground Lug   |
| <b>Connector(s) DC Output (type, location, pin outs):</b>        | N/A   |
| <b>Connector(s) EBP/Charger (type, location, pin outs):</b>      | Elcon 4-21-4 (Hot Swap Drawer)  |
| <b>Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):</b>   | 12V10ETb Lithium Iron Phosphate with balance feature  |
| <b>Battery Total Quantity:</b>                                   | 18 Batteries  |
| <b>Battery String Voltage:</b>                                   | 108Vdc (115.2Vdc) Nominal   |
| <b>Battery String (number of strings, quantity per string)</b>   | 2 strings of 9 batts per string   |
| <b>Battery Minimum Run Time (approx. run time at #watts):</b>    | Approx. 16min with a load of 5000W  |
| <b>Battery Run Current: (Start/End of Battery)</b>               | 41.67Adc Each PCBA, 83.33Adc Total  |
| <b>Battery Mounting (hot swap/fixed):</b>                        | Hot Swap  |
| <b>Temperature (operating, storage):</b>                         | Operating: -25C to +50C<br>Storage: -30C to +65C  |
| <b>Humidity:</b>   | 0 to 95%, Non-Condensing  |
| <b>PFC Feature:</b>  | Yes   |
| <b>Isolation (galvanic isolation/non-isolated):</b>              | Isolated  |
| <b>Application (shipboard/airborne/ground/all):</b>              | Ground Trailer mounted.   |
| <b>Fan Filters (EMI/dust/combination/grill):</b>                 | EMI   |
| <b>Auto Start (manual start/auto start):</b>                     | Auto-Start  |
| <b>Cold Start Switch (yes/no):</b>                               | No  |
| <b>Overload – Shutdown or Bypass (shutdown/bypass, %):</b>       | Goes to bypass at 11% overload. To recover from internal bypass to online press F1 after correcting overload condition. Manual bypass switch front panel. Press 2 buttons   |
| <b>Conformal Coated PCBAs (yes/no):</b>                          | Yes   |
| <b>Communications (SNMP2/SNMP3/RS232, type):</b>                 | SNMP (v.3.4), RJ-45 Port  |
| <b>Communications – Special (CIP/VMware ESX/ESXi/other):</b>     | N/A   |
| <b>Communications – Discrete (relay/opto, description):</b>      | N/A   |
| <b>Breaker &amp; Switch Input (rating, type, location):</b>      | 2P50A, Circuit Breaker and Input Power Switch   |
| <b>Breaker &amp; Switch AC Output (rating, type, location):</b>  | None  |
| <b>Breaker &amp; Switch DC Output (rating, type, location):</b>  | N/A   |
| <b>Neutral Bonded to Ground (bonded/un-bonded/switch):</b>       | Bonded  |
| <b>Note: If Non-Isolated Enter Un-Bonded</b>                     |   |
| <b>Weight:</b>   | 206 lbs   |

ISO 9001: 2008 Certified Facility

Military Standards


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