## UNINTERRUPTIBLE POWER SYSTEM (UPS)

3000VA, 2700W, 440VAC 3Ph 60Hz Isolated Input, 220VAC 60Hz Output, Freq Changer, 9BHS (10.5Ah) EBM, 2U24.7, L16-20P AC Input Panel Mount, L6-30R AC Ouput Panel Mount, SNMP, 2 x 2 Anderson EBP, Neutral Bonding Switch, with Slide Kit for 32RU Rack, Double Conversion, Rugged, High Temperature, On-line UPS, and Power Factor Correction.







**Part #** FA10448
**Model #** IHT3000RM-M-2.7KW-440V 3Ph-ISOL-FC60-220V-2U24.7-EBM

## FEATURES AND BENEFITS

### Rugged & Extreme Environments

All IntelliPower systems utilize circuit boards, chassis, components and construction techniques that are **specifically designed for extreme environments,** i.e., rugged, challenging thermal and/or shock and vibration applications. In today's marketplace, so called "ruggedized" repackaged commercial products are often billed as "built for harsh environments". AMETEK IntelliPower systems incorporate in house developed modular design elements specifically selected and/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 universal 88-265 VAC, single or 3 phase, 45-440Hz and/or DC voltage inputs and outputs. Enabling the use of any power source.

IntelliPower offers power management software along with many standard communications protocols such as SNMP, Ethernet/IP – Common Industrial Protocol (CIP) , RS-232, USB and Dry/Discrete Contacts. The sum total of these technological features equals the ultimate interface with and protection of 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 30 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 including IP65 completely sealed systems.

### Designed and Manufactured in the USA

The 30+ years of engineering and technological expertise has enabled us to develop, refine and prove the performance of products since 1988 to **100% user satisfaction**. For the end user, this translates into shorter lead times from design to shipping as well as level of personalized service unequalled in the marketplace. Our mission is to provide the customer with the highest standard of support, quality control and product reliability.

### Military Standards Compliance

AMETEK IntelliPower systems are **designed to meet military standards**. Our standard build practices, have enabled certified compliance to a number of performance standards for select models and product families, e.g., 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 (shipboard Interface requirements for AC devices; Voltage Transients (spikes), Frequency Transients, Harmonics, Power Factor). IntelliPower products have proven performance in a wide range of key rugged military programs within the Army, Air Force, Navy and Marines. Certification by independent labs of individual systems can also be arranged.

**CORPORATE HEADQUARTERS**
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**All products designed, manufactured & supported in the USA.**

TAA Compliant

| Uninterruptible Power System (UPS) | | |
|---|---|---|
| **IP Part #:** | FA10448 | Rev. 09062020 |
| **IP Model #:** | IHT3000RM-M-2.7KW-440V 3Ph-ISOL-FC60-220V-2U24.7-EBM | |
| **IP Description:** | 3000VA, 2700W, 440VAC 3Ph 60Hz Isolated Input, 220VAC 60Hz Output, Freq Changer, 9BHS (10.5Ah) EBM, 2U24.7, L16-20P AC Input Panel Mount, L6-30R AC Ouput Panel Mount, SNMP, 2 x 2 Anderson EBP, Neutral Bonding Switch, with Slide Kit for 32RU Rack, Double Conversion, Rugged, High Temperature, On-line UPS, and Power Factor Correction. | |

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|---|---|
| **INPUT RATINGS** | |
| **Input AC Voltage (AC Voltage, tolerance):** | 440 VAC, 3Ph -8% / +8% (405 VAC to 475 VAC) |
| **Input DC Voltage (AC Voltage, tolerance):** | N/A |
| **Input Frequency (Hz, tolerance):** | 60 Hz +/- 3 Hz |
| **Input Max Current (Amps):** | 8.3 Amps |
| **PFC Feature:** | Input Power Factor Correction to meet MIL-STD-1399-300B. |
| **Breaker & Switch AC Input (type, location):** | 3P, 10A, 440 VAC, Magnetic Hydraulic Circuit Breaker, Toggle Handle, Front Panel |
| **OUTPUT RATINGS** | |
| **Power Rating (VA, Watts):** | 3000 VA, 2700 W |
| **Output AC Voltage (AC Voltage, tolerance):** | 220 VAC, 1Ph, (+/-3%) |
| **Output DC Voltage (DC Voltage, tolerance):** | N/A |
| **Output Frequency (Hz, follower/changer):** | 60Hz Changer |
| **Output Sync Requirements:** | N/A |
| **Isolation (galvanic isolation/non-isolated):** | Galvanic Isolation |
| **Neutral Bonded to Ground (bonded/un-bonded/switch):** | Un-bonded |
| **Output AC Breaker & Switch (type, location):** | 1P, 15A, Magnetic Hydraulic Circuit Breaker, Push to Reset, Rear Panel |
| **Output Overload – Shutdown or Bypass:** | Shutdown at 110% of Full Load. |
| **MECHANICAL** | |
| **Enclosure Type & Size (type/rack unit, dimensions):** | Rack Mountable 2U, 3.5”H x 19”W x 24.7”D |
| **Enclosure Material & Finish (aluminum/steel finish):** | Aluminum, Chem Film Coated with Charcoal Gray Powder Coat |
| **Enclosure Airflow (front to rear/front to side/other):** | Front to Rear |
| **Nominal Weight +/- lbs.:** | 48 lbs. |
| **Fan Filters (EMI/dust/combination/grill):** | EMI |
| **Conformal Coated PCBAs (yes/no):** | Yes |
| **INTERFACE COMMUNICATIONS** | |
| **Serial Data Stream (SNMP v3/RS232, type):** | SNMP Ver. 3, Opto-Isolated, 10/100/1G. Rear Panel |
| **Special (CIP, VMware ESX/ESXi/Other):** | ESX 4.0 and ESXi 5.1 Networking Support for Graceful Shutdown. |
| **Discrete (Relay/Opto, Description):** | N/A |
| **ADDITIONAL ELECTRICAL FEATURES AND CONTROLS/INTERFACE** | |
| **Auto Start (manual start/auto start):** | Auto Start |
| **Cold Start Switch (Yes/No):** | Yes. Allows UPS to be started w/Battery if AC Power Source is not on. |
| **CONNECTORS** | |
| **Connector(s) AC Input (type, location):** | 1 Each: L16-20P Power Flanged Inlet, Rear Panel; (For 440 VAC, Three Phase Power) |
| **Connector(s) AC Output (type, location):** | 1 Each: L6-30R Rear Panel |
| **Connector(s) EBP/Charger (type, location):** | Modified Anderson Connector for External EBM Cable.<br>4 #10 conductors, for Power & temperature sensing. |
| **BATTERIES** | |
| **Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):** | 12V, 10.5 Ah Lead Acid |
| **Battery Total Quantity:** | 12 |
| **Battery String Voltage:** | 144 VDC Nominal |
| **Battery String (number of strings, quantity per string):** | 1 String, 12 Batteries Per String |
| **Battery Minimum Run Time (approx. run time at #watts):** | 15 minutes @ 2700 W with EBP FA10487 |
| **Battery Mounting (hot swap/fixed):** | External Battery Module (EBM) |

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| | |
|---|---|
| **External Battery Module (EBM) PN:** | FA10487 |

| **EMI and ENVIRONMENTAL** | |
|---|---|
| **Application (shipboard/airborne/ground/all):** | Shipboard |
| **Temperature (Operating):** | -20°C to +50°C |
| **Humidity:** | 0-95%, Non-Condensing |

**ISO 9001:2015 Certified Facility** | **Designed to Meet Mil Standards** | **Specifications subject to change without notice**

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