

## UNINTERRUPTIBLE POWER SYSTEM (UPS)

400VA, 250W, 115 VAC Input and 24 VDC Output, Isolated Rugged High Temperature Rack Mounted UPS and Power Converter for Industrial, Shipboard and Military Applications, to meet MIL Std 1399 section 300 requirements



Part # FA00201

Model # IHTC400RM-M-0.25kw-115VAC-Isol-24VDC-6BFB-2U21

## 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>	FA00201
<b>IP Model #:</b>	IHTC400RM-M-0.25kw-115VAC-Isol-24VDC-6BFB-2U21
<b>Unit Description:</b>	400VA, 250W, 115 VAC Input and 24 VDC Output, Isolated Rugged High Temperature Rack Mounted UPS and Power Converter for Industrial, Shipboard and Military Applications, to meet MIL Std 1399 section 300 requirements
<b>SPECIFICATIONS</b>	
<b>Power Rating (VA, Watts):</b>	400 VA, 250 W
<b>Input AC Voltage (AC Voltage, tolerance):</b>	115 VAC, (-25% +15%)
<b>Input DC Voltage (DC Voltage, tolerance):</b>	N/A
<b>Input Frequency (Hz, tolerance):</b>	50 or 60 Hz
<b>Input Max Current (Amps):</b>	7 Amps
<b>Output AC Voltage (AC Voltage, tolerance):</b>	N/A
<b>Output DC Voltage (DC Voltage, tolerance):</b>	24 VDC, ( $\pm 3\%$ )
<b>Output Frequency (Hz, follower/changer):</b>	60 Hz, Changer
<b>Output Sync Requirements:</b>	N/A
<b>Enclosure Type &amp; Size (type/rack unit, dimensions):</b>	Rack Mountable 2U, 3.5"H x 17"W x 21"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):</b>	1 each IEC-230-C14P, Rear Panel
<b>Connector(s) DC Input (type, location):</b>	N/A
<b>Connector(s) AC Output (type, location):</b>	1 each Terminal Block, Panel Guard, Rear Panel
<b>Connector(s) DC Output (type, location):</b>	N/A
<b>Connector(s) EBP/Charger (type, location):</b>	N/A
<b>Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):</b>	12V9Ah Pure Lead Acid
<b>Battery Total Quantity:</b>	6
<b>Battery String Voltage:</b>	72 VDC
<b>Battery String (number of strings, quantity per string)</b>	1, 6
<b>Battery Minimum Run Time (approx. run time at #watts):</b>	4+ hours at 50 W
<b>Battery Mounting (hot swap/fixed):</b>	Fixed
<b>Temperature:</b>	-30°C to +50°C Operating -40°C to +71°C Storage
<b>Humidity:</b>	0-95%, Non-Condensing
<b>PFC Feature:</b>	Input Power Factor Correction
<b>Isolation (galvanic isolation/non-isolated):</b>	Galvanic Isolation
<b>Application (shipboard/airborne/ground/all):</b>	Ground
<b>Fan Filters (EMI/dust/comboination/grill):</b>	None
<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>	Shutdown at 15% Overload
<b>Conformal Coated PCBAs (yes/no):</b>	Yes
<b>Communications (SNMP2/SNMP3/RS232, type):</b>	RS232 DE-9 D-subminiature, Opto-Isolated, Rear Panel
<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 (type, location):</b>	Toggle Switch, Front Panel
<b>Breaker &amp; Switch AC Output (type, location):</b>	N/A
<b>Breaker &amp; Switch DC Output (type, location):</b>	N/A
<b>Neutral Bonded to Ground (bonded/un-bonded/switch):</b>	Bonded

ISO 9001: 2008 Certified

TAA Compliant

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