

## UNINTERRUPTIBLE POWER SYSTEM (UPS)

3kVA, 2.1kW Double Conversion On Line, Isolated UPS. 115VAC, 60Hz Input, 120VAC, 60Hz Output, Power Factor Correction, Multiple Relay Contact Status Signals and Internal Automatic Bypass for Navy Shipboard Applications.



Part # FA00123

Model # IHT3KRM-M-2.1KW-115v-Isol-120v-4U25Im-400k-HR2

## 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

1746 N. Saint Thomas Circle • Orange, CA 92865 USA  
Tel: 714.921.1580 • Fax: 714.921.4023  
Email: [sales@intellipower.com](mailto:sales@intellipower.com) • [www.intellipower.com](http://www.intellipower.com)

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



Uninterruptible Power System (UPS)	
IP Part #:	FA00123
IP Model #:	IHT3KRM-M-2.1KW-115v-Isol-120v-4U25Im-400k-HR2
Unit Description:	3kVA, 2.1kW Double Conversion On Line Isolated UPS 115VAC, 60Hz Input, 120VAC, 60Hz Output, Power Factor Correction, Multiple Relay Contact Status Signals and Internal Automatic Bypass for Navy Shipboard Applications.
SPECIFICATIONS	
Power Rating (VA, Watts):	3000 VA, 2100 W
Input AC Voltage (AC Voltage, tolerance):	115 VAC, (-20% to +20%)
Input DC Voltage (DC Voltage, tolerance):	N/A
Input Frequency (Hz, tolerance):	P1: 60Hz, P2: 400Hz
Input Max Current (Amps):	P1: 33 Amps, P2: 34 Amps
Output AC Voltage (AC Voltage, tolerance):	6 Outputs J3-J6, J10, J11 at 120VAC ( $\pm 3\%$ ), Rear Panel 3 Outputs J7-J9 at 115VAC ( $\pm 3\%$ ), Rear Panel
Output DC Voltage (DC Voltage, tolerance):	N/A
Output Frequency (Hz, follower/changer):	6 Outputs J3-J6 at 60Hz; 3 Outputs J7-J9 at 400Hz
Output Sync Requirements:	6 Outputs J3-J6 sync to ( $\pm 5\%$ )
Enclosure Type & Size (type/rack unit, dimensions):	Rack Mountable 4U, 7"H x 17"W x 25"D
Enclosure Material & Finish (aluminum/steel, finish):	Aluminum
Enclosure Airflow (front to rear/front to side/other):	Front-to-rear
Enclosure – Special (IP65/Zone 1):	N/A
Connector(s) AC Input (type, location):	P1: 115 VAC, 60 Hz Circular Mil, Rear Panel P2: 115 VAC, 400 Hz Circular Mil, Rear Panel
Connector(s) DC Input (type, location):	N/A
Connector(s) AC Output (type, location):	9 connectors, J3-J11, each Circular Mil, Rear Panel
Connector(s) DC Output (type, location):	N/A
Connector(s) EBP/Charger (type, location):	N/A
Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):	12V2.9Ah, Lead Acid
Battery Total Quantity:	8
Battery String Voltage:	96
Battery String (number of strings, quantity per string)	1, 8
Battery Minimum Run Time (approx. run time at #watts):	10 seconds at 2000 W
Battery Mounting (hot swap/fixed):	Hot Swap
Temperature:	0C to 50C operating; -40C to 70C Storage;
Humidity:	0-95%, Non-Condensing
PFC Feature:	Yes
Isolation (galvanic isolation/non-isolated):	Galvanic Isolation
Application (shipboard/airborne/ground/all):	Shipboard
Fan Filters (EMI/dust/comboination/grill):	Combination Dust/EMI on front, EMI on rear
Auto Start (manual start/auto start):	Auto Start
Cold Start Switch (yes/no):	No
Overload – Shutdown or Bypass (shutdown/bypass, %):	Bypass
Conformal Coated PCBAs (yes/no):	Yes
Communications (SNMP2/SNMP3/RS232, type):	J13: RS-232, DE-9 D-subminiature, Opto-Isolated, Rear Panel
Communications – Special (CIP/VMware ESX/ESXi/other):	N/A
Communications – Discrete (relay/opto, description):	J12: Circular Mil; fail, battleshort
Breaker & Switch Input (rating, type, location):	Toggle Switch, Front Panel CB1 for P1, Front Panel Toggle Switch, Front Panel CB2 for P2, Front Panel
Breaker & Switch AC Output (rating, type, location):	Push to Reset, Front Panel for J3-J5 & J7-J11, Front Panel
Breaker & Switch DC Output (rating, type, location):	N/A
Neutral Bonded to Ground (bonded/un-bonded/switch):	Un-bonded

ISO 9001: 2008 Certified

TAA Compliant



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