

## UNINTERRUPTIBLE POWER SYSTEM (UPS)

Double Conversion, Rugged, Extreme High Temperature, Isolated, On Line UPS System with Hot Swap Battery Cabinet, Power Factor Correction, Dual 115VAC Inputs and MIL STDS for Navy Shipboard Applications.



Part # FA00072

Model # IET3000RM-M-2.1kw-2i-115v-Isol-FC60-108vEBP-3U17Al-NN3209A

## 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.



### Uninterruptible Power System (UPS)

<b>IP Part #:</b>	FA00072
<b>IP Model #:</b>	IET3000RM-M-2.1kw-2i-115v-Isol-FC60-108vEBP-3U17Al-NN3209A
<b>Unit Description:</b>	Bright UPS Double Conversion Rugged Extreme High Temperature Isolated On Line UPS System with Hot Swap Battery Cabinet, Power Factor Correction, Dual 115VAC Inputs and MIL STDS for Navy Shipboard Applications

#### SPECIFICATIONS

<b>Power Rating (VA, Watts):</b>	3000 VA, 2100 W
<b>Input AC Voltage (AC Voltage, tolerance):</b>	2 each 115VAC Sources, (-25% to +15%), Auto Select
<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>	N/A
<b>Output AC Voltage (AC Voltage, tolerance):</b>	115 VAC, (±3%)
<b>Output DC Voltage (DC Voltage, tolerance):</b>	N/A
<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 3U, 5.25"H x 19"W x 16.75"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>	2 each Circular Mil type; J1 MS3451L20-4P; J2 MS3451L20-4PW, Rear Panel
<b>Connector(s) DC Input (type, location):</b>	N/A
<b>Connector(s) AC Output (type, location):</b>	1 each Circular Mil; J3 MS3456L20-4S, Rear Panel
<b>Connector(s) DC Output (type, location):</b>	N/A
<b>Connector(s) EBP/Charger (type, location):</b>	1 each Circular Mil; J4 MS3451L20-4PX, Rear Panel
<b>Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):</b>	N/A
<b>Battery Total Quantity:</b>	N/A
<b>Battery String Voltage:</b>	N/A
<b>Battery String (number of strings, quantity per string)</b>	N/A
<b>Battery Minimum Run Time (approx. run time at #watts):</b>	10+ minutes at 1800 W with EBP FA00073
<b>Battery Mounting (hot swap/fixed):</b>	N/A
<b>Temperature:</b>	Operating Temp: -10C to +60C
<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>	Shipboard
<b>Fan Filters (EMI/dust/comboination/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>	Bypass at 5%-10% Overload
<b>Conformal Coated PCBAs (yes/no):</b>	Yes
<b>Communications (SNMP2/SNMP3/RS232, type):</b>	SNMP, Ethernet Jack, 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>	Push to reset, Front Panel
<b>Breaker &amp; Switch DC Output (type, location):</b>	N/A
<b>Neutral Bonded to Ground (bonded/un-bonded/switch):</b>	Un-bonded

ISO 9001: 2008 Certified

TAA Compliant



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