

UNINTERRUPTIBLE POWER SYSTEM (UPS)

Bright UPS 5000VA, 4000W, 120VAC 50/60Hz Input and 120VAC 60Hz Output, Double Conversion, On Line, Extreme High Temperature, Isolated, Rugged UPS with Power Factor Correction for Military Applications.



Part # FA00314

Model # IHT5000RM-M-4.0Kw-120v-Isol-FC60-120v-3U24-EBP

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.

CORPORATE HEADQUARTERS

1746 N. Saint Thomas Circle • Orange, CA 92865 USA
Tel: 714.921.1580 • Fax: 714.921.4023
Email: sales@intellipower.com • www.intellipower.com

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



Uninterruptible Power System (UPS)	
IP Part #:	FA00314
IP Model #:	IHT5000RM-M-4.0Kw-120v-Isol-FC60-120v-3U24-EBP
Unit Description:	Bright UPS 5000VA, 4000W, 120VAC 50/60Hz Input and 120VAC 60Hz Output, Double Conversion, On Line, Extreme High Temperature, Isolated, Rugged UPS with Power Factor Correction for Military Applications.
SPECIFICATIONS	
Power Rating (VA, Watts):	5000VA, 4000W
Input AC Voltage (AC Voltage, tolerance):	120VAC ($\pm 10\%$) Green LED to indicate AC line voltage is present (After Breaker)
Input DC Voltage (DC Voltage, tolerance):	N/A
Input Frequency (Hz, tolerance):	60Hz, ($\pm 10\%$)
Input Max Current (Amps):	57A
Output AC Voltage (AC Voltage, tolerance):	120VAC, ($\pm 3\%$)
Output DC Voltage (DC Voltage, tolerance):	N/A
Output Frequency (Hz, follower/changer):	FC, 60Hz
Output Sync Requirements:	Synced within ± 3 Hz from the input frequency or fixed at 60Hz if outside of this range
Enclosure Type & Size (type/rack unit, dimensions):	3U, 5.25"H x 17"W x 24"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, pin outs):	6ft power cord with Cir Mil MS3456L28-22P (A-L, B-N, C-G)
Connector(s) DC Input (type, location, pin outs):	N/A
Connector(s) AC Output (type, location, pin outs):	6ft power cord with Cir Mil MS3456L28-22S (A-L, B-N, C-G)
Connector(s) DC Output (type, location, pin outs):	N/A
Connector(s) EBP/Charger (type, location, pin outs):	2 x PP75 Locking Anderson Connectors (Rated down to -40C) on 25" Pig Tails
Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):	Sealed Maintenance Free, Cyclon Batteries
Battery Total Quantity:	EBP Required
Battery String Voltage:	72VDC Nominal
Battery String (number of strings, quantity per string)	2 String of 36
Battery Minimum Run Time (approx. run time at #watts):	-Approx 5min at 25C with a load of 4000W -Approx 6 min at -40C with a load of 1500W -0 to 85% state of charge in 1.5 hours at -40°C and to 100% in less than 5 hours.
Battery Mounting (hot swap/fixed):	N/A
Temperature (operating, storage):	Operating: -40C to +55C Storage: -45C to +70C
Humidity:	0 to 95%, Non-Condensing
PFC Feature:	Yes
Isolation (galvanic isolation/non-isolated):	Isolated
Application (shipboard/airborne/ground/all):	Ground
Fan Filters (EMI/dust/comboination/grill):	EMI
Auto Start (manual start/auto start):	Auto-Start
Cold Start Switch (yes/no):	No
Overload – Shutdown or Bypass (shutdown/bypass, %):	Bypass after 110% load for 10 seconds
Conformal Coated PCBAs (yes/no):	Yes
Communications (SNMP2/SNMP3/RS232, type):	RS-232, Opto-Isolated Pin 2-Trans (To PC) Pin 3-Receive (From PC) Pin 5-Data common (Isolated from Chassis)

ISO 9001: 2008 Certified Facility

Military Standards

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