

UNINTERRUPTIBLE POWER SYSTEM (UPS)

2200 VA, 2120 W UPS with 120 VAC Input, 120 VAC and 28 VDC Outputs, Frequency Changer, Isolated, Power Factor Corrected, Hot Swap Tower, 17" H x 7.75" W x 22" D, Rugged, Double Conversion, to Provide Power Conditioning for Navy Applications.



Part # FA10419 & 10571
Model # IHT2200V-M-2.12KW-120-ISOL-FC60-120-28Vdc-7BHS

FEATURES & BENEFITS

Rugged & Extreme Environments

All AMETEK 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.

AMETEK 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 AMETEK IntelliPower's building block methodology, more product features and functionality are provided without having to extend lead times or change proven designs. For over 32 years, AMETEK 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, Manufactured & Supported in the USA

The engineering and technological expertise within AMETEK 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). AMETEK IntelliPower products are used in a wide range of key military programs within the Army, Air Force, Navy, Marines and Coast Guard.

To find out more about AMETEK IntelliPower capabilities, please visit our website at www.intellipower.com/capabilities.

CORPORATE HEADQUARTERS

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 Tel: 714-921-1580 Fax: 714-921-4023
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Uninterruptible Power System (UPS)

IP Part #:	FA10419 & FA10571	Rev. 08122020
IP Model #:	IHT2200V-M-2.12KW-120-ISOL-FC60-120-28Vdc-7BHS	
Unit Description:	2200 VA, 2120 W UPS with 120 VAC Input, 120 VAC and 28 VDC Outputs, Frequency Changer, Isolated, Power Factor Corrected, Hot Swap, Tower, 17"H x 7.75"W x 22"D, Rugged, Double Conversion, to Provide Power Conditioning for Navy Applications.	
INPUT RATINGS		
Input AC Voltage (AC Voltage, tolerance):	120 VAC, (-10% +10%)	
Input DC Voltage (AC Voltage, tolerance):	N/A	
Input Max Current (Amps):	23.7A RMS (@80% Efficiency, 116 VAC Input, 2200 VA Output)	
Input Frequency (Hz, tolerance):	50 or 60 Hz, (±5Hz)	
PFC Feature:	Input Power Factor Correction	
Breaker & Switch AC Input (type, location):	2P25A, Paddle Type, Magnetic Hydraulic Breaker, Rear Panel	
OUTPUT RATINGS		
Power Rating (VA, Watts):	2200 VA (AC Output Only), 140 Watts (DC Output), 2.12 KW Total Maximum	
Output AC Voltage (AC Voltage, tolerance):	120 VAC, (±3%)	
Output DC Voltage (DC Voltage, tolerance):	28 VDC +/- 3% @ 5A / 140W	
Output Frequency (Hz, follower/changer):	60 Hz +/- 3 %, Changer	
Output Sync Requirements:	N/A	
Isolation (galvanic isolation/non-isolated):	Galvanic Isolation	
Neutral Bonded to Ground (bonded/un-bonded/switch):	Switch	
Output AC Breaker & Switch (type, location):	3 Each: 1P20A, Push to Reset, Magnetic Hydraulic Breaker, Rear Panel	
Output Overload – Shutdown or Bypass:	At 110% of Full Load: AC Bypass, DC Shutdown	
MECHANICAL		
Enclosure Type & Size (type/rack unit, dimensions):	Tower, 17"H x 7.75"W x 22"D (Height x Width x Depth)	
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.:	120 lbs.	
Fan Filters (EMI/dust/comboination/grill):	EMI	
Conformal Coated PCBAs (yes/no):	Yes	
INTERFACE COMMUNICATIONS		
Serial Data Stream (SNMP v3/RS232, type):	SNMPv3	
Special (CIP, VMware ESX/ESXi/Other):	N/A	
Discrete (Relay/Opto, Description):	N/A	
ADDITIONAL ELECTRICAL FEATURES AND CONTROLS/INTERFACE		
Auto Start (manual start/auto start):	AC Output is Present when AC is Applied (Default Setting)	
Cold Start Switch (Yes/No):	No / (Optional)	
Controls-Remote (EPO/Cold Start/Other):	Emergency Power Off (EPO), terminal block. Mates with wire leads	
CONNECTORS		
Connector(s) AC Input (type, location):	1 EA: Circular MIL, MS3456L20-19P on 6 ft. Line Cord	
Connector(s) AC Output (type, location):	6 EA, Circular MIL MS3452L16-10S; Panel Mount, Rear	
Connector(s) EBP/Charger (type, location):	N/A	
Overload – Shutdown or Bypass (shutdown/bypass, %):	N/A	
BATTERIES		
Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):	12V, 10.0 Ah, Sealed Lead Acid	
Battery Total Quantity:	7	
Battery String Voltage:	84 VDC	
Battery String (number of strings, quantity per string)	1	
Battery Minimum Run Time (approx. run time at #watts):	8 minutes @ 2120 Watts (75% Efficiency)	
Battery Mounting (hot swap/fixd):	Hot Swap Drawer	

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External Battery Module (EBM) PN:	N/A
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EMI and ENVIRONMENTAL

Application (shipboard/airborne/ground/all):	Shipboard
Temperature (Operating/Storage):	-0°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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