

UNINTERRUPTIBLE POWER SYSTEM (UPS)

Global Input, Rugged, Rack Mount Double Conversion On-Line Isolated Power Conditioning System with Power Factor Correction.



Part # FA10099

Model # IFC-3000RM-M-2.1kw-GWRAC-Isol-120vOut-FC60-PFC-2U21

FEATURES AND BENEFITS

Rugged & Extreme Environments

All IntelliPower systems utilize circuit boards, chassis, components and construction techniques that are **specifically designed for extreme environments**, i.e., rugged, challenging thermal and/or shock and vibration applications. In today's marketplace, so called "ruggedized" repackaged commercial products are often billed as "built for harsh environments". AMETEK IntelliPower systems incorporate in house developed modular design elements specifically selected and/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 universal 88-265 VAC, single or 3 phase, 45-440Hz and/or DC voltage inputs and outputs. Enabling the use of any power source.

IntelliPower offers power management software along with many standard communications protocols such as SNMP, Ethernet/IP – Common Industrial Protocol (CIP), RS-232, USB and Dry/Discrete Contacts. The sum total of these technological features equals the ultimate interface with and protection of 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 30 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 including IP65 completely sealed systems.

Designed and Manufactured in the USA

The 30+ years of engineering and technological expertise has enabled us to develop, refine and prove the performance of products since 1988 to **100% user satisfaction**. For the end user, this translates into shorter lead times from design to shipping as well as level of personalized service unequalled in the marketplace. Our mission is to provide the customer with the highest standard of support, quality control and product reliability.

Military Standards Compliance

AMETEK IntelliPower systems are **designed to meet military standards**. Our standard build practices, have enabled certified compliance to a number of performance standards for select models and product families, e.g., 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 (shipboard Interface requirements for AC devices; Voltage Transients (spikes), Frequency Transients, Harmonics, Power Factor). IntelliPower products have proven performance in a wide range of key rugged military programs within the Army, Air Force, Navy and Marines. Certification by independent labs of individual systems can also be arranged.

CORPORATE HEADQUARTERS

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Uninterruptible Power System (UPS)		
IP Part #:	FA10099	Rev. 08142020
IP Model #:	IFC-3000RM-M-2.1kw-GWRAC-Isol-120vOut-FC60-PFC-2U21	
IP Description:	Global Input, Rugged, Rack Mount, Double Conversion, On-Line, Isolated Power Conditioning System with Power Factor Correction.	
INPUT RATINGS		
Input AC Voltage (AC Voltage, tolerance):	GWRAC 90-265VAC	
Input DC Voltage (AC Voltage, tolerance):	N/A	
Input Frequency (Hz, tolerance):	47.5 to 63 Hz	
Input Max Current (Amps):	20 Amps (limited to)	
PFC Feature:	Input Power Factor Correction	
Breaker & Switch AC Input (type, location):	Toggle Circuit Breaker Switch, Rear Panel 2P20A	
OUTPUT RATINGS		
Power Rating (VA, Watts):	3000 VA, 2100 W	
Output AC Voltage (AC Voltage, tolerance):	120 VAC, (±3%)	
Output DC Voltage (DC Voltage, tolerance):	N/A	
Output Frequency (Hz, follower/changer):	60 Hz, Changer	
Output Sync Requirements:	N/A	
Isolation (galvanic isolation/non-isolated):	isolated	
Neutral Bonded to Ground (bonded/un-bonded/switch):	Bonded	
Output AC Breaker & Switch (type, location):	Push to Reset, Rear Panel 1P20A	
Output Overload – Shutdown or Bypass:	Shutdown at 115%	
MECHANICAL		
Enclosure Type & Size (type/rack unit, dimensions):	Rack Mountable 2U, 3.5”H x 19”W x 21”D	
Enclosure Material & Finish (aluminum/steel finish):	Steel	
Enclosure Airflow (front to rear/front to side/other):	Front-to-rear	
Nominal Weight +/- lbs.:	TBD	
Fan Filters (EMI/dust/combination/grill):	None	
Conformal Coated PCBAs (yes/no):	No	
INTERFACE COMMUNICATIONS		
Serial Data Stream (SNMP v3/RS232, type):	RS232 DE-9 D-subminiature, Opto-Isolated, Rear Panel	
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):	Auto Start	
Cold Start Switch (Yes/No):	No	
CONNECTORS		
Connector(s) AC Input (type, location):	1 each IEC-320 C20, Rear Panel	
Connector(s) AC Output (type, location):	6 each NEMA 5-20R, Rear Panel	
Connector(s) EBP/Charger (type, location):	N/A	
Overload – Shutdown or Bypass (shutdown/bypass, %):	Shutdown at 115%	

EMI and ENVIRONMENTAL	
Application (shipboard/airborne/ground/all):	Ground
Temperature (Operating):	-15°C to 50°C
Humidity:	0 to 95% Non-Condensing

ISO 9001:2015 Certified Facility | Designed to Meet Mil Standards | Specifications subject to change without notice

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