

Voltage/Frequency Converter

FA10099

All IntelliPower systems utilize circuit boards, chassis, components and construction techniques that are specifically designed for extreme environments—rugged, challenging thermal and/or shock and vibration applications. 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. Our standard build practices have enabled certified compliance to a number of performance standards for select models and product families. IntelliPower systems have proven performance in a wide range of key rugged military programs within the Army, Air Force, Navy and Marines. IntelliPower products are designed and manufactured in the USA, which means shorter lead times from design to shipping, as well as a level of personalized service unequaled in the marketplace.



Voltage/Frequency Converter

Part #:	FA10099	102121
Model #:	IFC-3000RM-M-2.1kw-GWRAC-Isol-120vOut-FC60-PFC-2U21	
Unit 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 (DC Voltage, tolerance):	N/A
Input Frequency (Hz, tolerance):	47.5 to 63 Hz
Input Max Current with Inverter Output (Amps):	20 Amps (limited to)
PFC Feature:	Yes
Breaker & Switch 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, (+/-3 Hz), changer

(continued)

Isolation (galvanic isolation/non-isolated):	Isolated
Neutral Bonded to Ground (bonded/un-bonded/switch):	Bonded
Breaker & Switch AC Output (type, location):	Push to Reset, Rear Panel 1P20A
Overload – Shutdown or Bypass (shutdown/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, powder coated charcoal gray
Enclosure Airflow (front to rear/front to side/other):	Front-to-rear
Enclosure – Special (IP65/Zone 1):	N/A
Weight:	TBD
Fan Filters (EMI/dust/comboination/grill):	Grill
Conformal Coated PCBAs (yes/no):	No
INTERFACE COMMUNICATIONS	
Communications (SNMP2/SNMP3/RS232, type):	RS232 DE-9 D-subminiature, Opto-Isolated, Rear Panel
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) DC Input (type, location):	N/A
Connector(s) AC Output 1 (type, location):	6 each NEMA 5-20R, Rear Panel
Connector(s) DC Output 1 (type, location):	N/A
Connector(s) EBP/Charger (type, location):	N/A
BATTERIES	
Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron):	No
Battery Total Quantity:	No
Battery String Voltage:	No
Battery String (number of strings, quantity per string)	No
Battery Minimum Run Time (approx. run time at #watts):	No
Battery Mounting (hot swap/fixe):	No
EMI and ENVIRONMENTAL	
Application (shipboard/airborne/ground/all):	Ground
Operating Temperature:	-15°C to +50°C
Humidity:	0-95%, non-condensing

Specifications subject to change without notice.