

Voltage/Frequency Converter

FA00061

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 #:	FA00061	102121
Model #:	IPFC2KVA-M-1.8kw-230v-50/60in-Isol-120v60out-3U17	
Unit Description:	Rugged, High Temperature, Double Conversion On-Line Isolated Voltage and Frequency Converter & Power Conditioning System with Power Factor Correction for Military Applications (No batteries).	

INPUT RATINGS	
Input AC Voltage (AC Voltage, tolerance):	230 VAC, (-23% +15%)
Input DC Voltage (DC Voltage, tolerance):	N/A
Input Frequency (Hz, tolerance):	50 or 60 Hz, (+/- 5 Hz)
Input Max Current with Inverter Output (Amps):	N/A
PFC Feature:	Input power factor correction
Breaker & Switch Input (type, location):	Toggle Switch, Front Panel
OUTPUT RATINGS	
Power Rating (VA, Watts):	2000 VA, 1800 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, Frequency Changer

(continued)

Isolation (galvanic isolation/non-isolated):	Input Galvanic Isolation
Neutral Bonded to Ground (bonded/un-bonded/switch):	Bonded
Breaker & Switch AC Output (type, location):	Push to Reset, Front Panel
Overload – Shutdown or Bypass (shutdown/bypass, %):	Shutdown at 15% Overload
MECHANICAL	
Enclosure Type & Size (type/rack unit, dimensions):	Rack Mountable 3U, 5.25"H x 17" W x 17" D
Enclosure Material & Finish (aluminum/steel, finish):	Aluminum, 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):	EMI
Conformal Coated PCBAs (yes/no):	Yes
INTERFACE COMMUNICATIONS	
Communications (SNMP2/SNMP3/RS232, type):	RS232 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 6' flying lead, Front Panel
Connector(s) DC Input (type, location):	N/A
Connector(s) AC Output 1 (type, location):	4 each NEMA 5-20R, Front Panel
Connector(s) AC Output 2 (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):	All
Operating Temperature:	-20°C to +50°C
Humidity:	5-95%, non-condensing

Specifications subject to change without notice.