

# Voltage/Frequency Converter

## FA00094

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

<b>Part #:</b>	<b>FA00094</b>	<b>102121</b>
<b>Model #:</b>	<b>IPFC-1100RM-M-0.9kw-DiAC-24VDCin-Isol-120vFC60out-2U18</b>	
<b>Unit Description:</b>	<b>Global, Isolated, 124/240VAC &amp; 24VDC Input, Converter/Conditioner with 120VAC, 60Hz Output, Rugged, Rack Mount, Double Conversion, On-Line Power Converter Conditioning System.</b>	

#### INPUT RATINGS

Input AC Voltage (AC Voltage, tolerance):	120 or 240 VAC, (-20% +15%)
Input DC Voltage (DC Voltage, tolerance):	22 thru 32 VDC
Input Frequency (Hz, tolerance):	50 or 60 Hz, (+/- 5 Hz)
Input Max Current with Inverter Output (Amps):	11.03 Amps
PFC Feature:	Yes
Breaker & Switch Input (type, location):	2P12A, toggle

#### OUTPUT RATINGS

Power Rating (VA, Watts):	1100 VA, 900 Watts
Output AC Voltage (AC Voltage, tolerance):	120 VAC, (+/-2%)
Output DC Voltage (DC Voltage, tolerance):	N/A
Output Frequency (Hz, follower/changer):	60 Hz, (+/-3 Hz), 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):	1 each 1P10A, push to reset
Overload – Shutdown or Bypass (shutdown/bypass, %):	Shutdown at 115%
<b>MECHANICAL</b>	
Enclosure Type & Size (type/rack unit, dimensions):	2U, rack mountable, 3.5 x 17 x 18 inch (Height x Width x Depth)
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):	Dust and EMI
Conformal Coated PCBAs (yes/no):	Yes
<b>INTERFACE COMMUNICATIONS</b>	
Communications (SNMP2/SNMP3/RS232, type):	RS-232, opto-isolated
Discrete (Relay/Opto, Description):	N/A
<b>ADDITIONAL ELECTRICAL FEATURES AND CONTROLS/INTERFACE</b>	
Auto Start (manual start/auto start):	Auto Start
Cold Start Switch (yes/no):	No
<b>CONNECTORS</b>	
Connector(s) AC Input (type, location):	1 each IEC 60320 C14
Connector(s) DC Input (type, location):	1 each MS3452L24-12P
Connector(s) AC Output 1 (type, location):	6 each NEMA 5-15R
Connector(s) DC Output 1 (type, location):	1 each MS3474L10-6S
Connector(s) EBP/Charger (type, location):	N/A
<b>BATTERIES</b>	
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)d):	No
<b>EMI and ENVIRONMENTAL</b>	
Application (shipboard/airborne/ground/all):	Ground
Operating Temperature:	-20°C to +50°C
Humidity:	5-95%, non-condensing

Specifications subject to change without notice.