

Voltage/Frequency Converter

FA00111

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 #:	FA00111	102121
Model #:	IHTFC550RM-M-0.46kw-120VAC-C400Hz-Isol-120vOut-FC60-PFC-2U18-NTV	
Unit Description:	High Temp Frequency Converter, Power Conditioner Rugged Rack Mount Double Conversion On Line with Isolation and Power Factor Correction.	

INPUT RATINGS	
Input AC Voltage (AC Voltage, tolerance):	120 VAC, (-23% +15%)
Input DC Voltage (DC Voltage, tolerance):	N/A
Input Frequency (Hz, tolerance):	45 to 400 Hz
Input Max Current with Inverter Output (Amps):	6A
PFC Feature:	Yes
Breaker & Switch Input (type, location):	Toggle Switch, Front Panel
OUTPUT RATINGS	
Power Rating (VA, Watts):	550 VA, 460 W
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):	Push to Reset, Front Panel
Overload – Shutdown or Bypass (shutdown/bypass, %):	Bypass
MECHANICAL	
Enclosure Type & Size (type/rack unit, dimensions):	Rack Mountable, 2U, 3.5"H x 17" W x 18" 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/combo/grill):	EMI
Conformal Coated PCBAs (yes/no):	Yes
INTERFACE COMMUNICATIONS	
Communications (SNMP2/SNMP3/RS232, type):	RS-232 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 MS3102R20-19P Circular Mil, Rear Panel
Connector(s) DC Input (type, location):	N/A
Connector(s) AC Output 1 (type, location):	1 each MS3102R20-19S Circular Mil, 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/fix):	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.