

Voltage/Frequency Converter

FA00206

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 #:	FA00206	102121		
Model #:	IFC-2000RM-M-2kw-DiAC-Isol-120vOut-FC60-PFC-2U21			
Unit Description: Global Input Rugged Rack Mount Double Conversion Online Isolated Power Conditioning System with Power Factor Correction				

INPUT RATINGS				
Input AC Voltage (AC Voltage, tolerance):	120 or 240 VAC, (-23% +15%)			
Input DC Voltage (DC Voltage, tolerance):	N/A			
Input Frequency (Hz, tolerance):	47.5 to 63 Hz			
Input Max Current with Inverter Output (Amps):	26 Amps			
PFC Feature:	Yes			
Breaker & Switch Input (type, location):	Toggle Switch, Rear Panel			
OUTPUT RATINGS				
Power Rating (VA, Watts):	2000 VA, 2000 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)









Breaker & Switch AC Output (type, location): Overload - Shutdown or Bypass (shutdown/bypass, %): MRECHANICAL Enclosure Type & Size (type/rack unit, dimensions): Enclosure Material & Finish (aluminum/steel, finish): Enclosure Airflow (front to rear/front to side/other): Enclosure - Special (iP65/Zone 1): Enclosure - Special (iP66/Zone 2): Enclos	Isolation (galvanic isolation/non-isolated):	N/A		
Overload – Shutdown or Bypass (shutdown/bypass, %): MECHANICAL Enclosure Type & Size (type/rack unit, dimensions): Enclosure Material & Finish (aluminum/steel, finish): Enclosure Airflow (front to rear/front to side/other): Enclosure - Special (iP65/Zone 1): MVA Weight: Enclosure Finish (EMI/dust/combination/grill): Conformal Coated PCBAs (yes/na): No INTERFACE COMMUNICATIONS Communications (SNMP2/SNMP3/RS232, type): Discrete (Relay/Opto, Description): ADDITIONAL ELECTRICAL FRUIRES AND CONTROLS/INTERFACE Auto Start (manual start/auto start): Connector(s) AC Input (type, location): Connector(s) AC Input (type, location): Connector(s) AC Output 1 (type, location): Connector(s) Coutput 1 (type, location): Connector(s) EBP/Charger (type, location): MVA BATTERIES Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron): Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron): Battery String (number of strings, quantity per string) Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run Time (approx, run time at #watts): Battery Minimum Run	Neutral Bonded to Ground (bonded/un-bonded/switch):	N/A		
### MECHANICAL Enclosure Type & Size (type/rack unit, dimensions): Enclosure Material & Finish (aluminum/steel, finish): Enclosure Airflow (front to rear/front to side/other): Enclosure - Special (lP65/Zone 1): Enclosure - Special (lP65/Zone 1): Enclosure - Special (lP65/Zone 1): N/A Weight: TBD Fon Filters (EMI/dust/combination/grill): Conformal Coated PCBAs (yes/no): No INTERFACE COMMUNICATIONS Communications (SIMMP2/SMMP3/RS232, type): Discrete (Relay/Opto, Description): Aboth Start (manual start/auto start): Cold Start Switch (yes/no): No CONNECTORS Connector(s) AC Input (type, location): Connector(s) DC Input (type, location): Connector(s) DC Input (type, location): Connector(s) DC Output 1 (type, location): Connector(s) EBP/Charger (type, location): Connector(s) EBP/Charger (type, location): MA Batter (Start (radius, Pakaid) Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron): Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron): Battery Type (rating, rbAcid/Pure PbAcid/Lithium Iron): Battery String Valtage: Battery String Valtage: Battery String Valtage: Battery String Valtage: Battery Mounting (not swap/fixed): No Departing Temperature: -15°C to +50°C	Breaker & Switch AC Output (type, location):	Push to Reset, Rear Panel		
Enclosure Type & Size (type/rack unit, dimensions): Enclosure Material & Finish (aluminum/steel, finish): Enclosure Material & Finish (aluminum/steel, finish): Enclosure Airflow (front to rear/front to side/other): Enclosure - Special (1665/Zone 1): Enclosure -	Overload – Shutdown or Bypass (shutdown/bypass, %):	Shutdown		
Enclosure Material & Finish (aluminum/steel, finish): Enclosure Airflow (front to rear/front to side/other): Enclosure - Special (IP65/Zone 1): N/A Weight: TBD Fan Filters (EMI/dust/combination/grill): Grill Conformal Coated PCBAs (yes/no): No INTERFACE COMMUNICATIONS Communications (SIMMP2/SIMMP3/RS232, type): Iscrete (Relay/Opto, Description): ADDITIONAL ELECTRICAL FEATURES AND CONTROLS/INTERFACE Auto Start (manual start/auto start): Cold Start Switch (yes/no): Connector(s) AC Input (type, location): Connector(s) AC Output 1 (type, location): Connector(s) DC Output 1 (type, location): Connector(s) EBP/Charger (type, location): M/A BATTERIES Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron): Battery Type (rating, Capanity): Battery String Voltage: Battery String (number of strings, quantity per string) Battery String (number of strings, quantity per string) Battery Mounting (hot swap/fixed): EMI and EMVIRONMENTAL Application (shipboard/airborne/ground/all): Ground Gperating Temperature:	MECHANICAL			
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Enclosure – Special (IP65/Zone 1): Weight: Fan Filters (EMI/dust/combination/grill): Conformal Coated PCBAs (yes/no): No INITERFACE COMMUNICATIONS Communications (SNMP2/SMMP3/RS232, type): Posterial (Relay/Opto, Description): N/A ADDITIONAL ELECTRICAL FEATURES AND CONTROLS/INTERFACE Auto Start (manual start/auto start): Auto Start (manual start/auto start): No CONNECTORS Connector(s) AC Input (type, location): N/A Connector(s) AC Output 1 (type, location): Connector(s) AC Output 1 (type, location): N/A BATTERIES BATTERIES BATTERIES BATTERY	Enclosure Material & Finish (aluminum/steel, finish):	Steel, powder coated charcoal gray		
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Connector(s) DC Output 1 (type, location): Connector(s) EBP/Charger (type, location): 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) Battery Minimum Run Time (approx. run time at #watts): No Battery Mounting (hot swap/fixed): EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Ground Operating Temperature: -15°C to +50°C	Connector(s) DC Input (type, location):	N/A		
Connector(s) EBP/Charger (type, location): 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/fixed): No EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Ground Operating Temperature: -15°C to +50°C	Connector(s) AC Output 1 (type, location):	6 each NEMA 5-20R, Rear Panel		
Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron): Battery Total Quantity: Battery String Voltage: Battery String (number of strings, quantity per string) Battery Minimum Run Time (approx. run time at #watts): Battery Mounting (hot swap/fixed): EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Operating Temperature: Operating Temperature: No No Ground Ground	Connector(s) DC Output 1 (type, location):	N/A		
Battery Type (rating, PbAcid/Pure PbAcid/Lithium Iron): Battery Total Quantity: Battery String Voltage: Battery String (number of strings, quantity per string) Battery Minimum Run Time (approx. run time at #watts): Battery Mounting (hot swap/fixed): EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Operating Temperature: No Roo Forund Ground Ground -15°C to +50°C	Connector(s) EBP/Charger (type, location):	N/A		
Battery Total Quantity: Battery String Voltage: Battery String (number of strings, quantity per string) Battery Minimum Run Time (approx. run time at #watts): Battery Mounting (hot swap/fixed): Battery Mounting (hot swap/fixed): Mo EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Ground Operating Temperature: -15°C to +50°C	BATTERIES			
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Battery String (number of strings, quantity per string) Battery Minimum Run Time (approx. run time at #watts): Battery Mounting (hot swap/fixed): EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Operating Temperature: Operating Temperature: No Ground -15°C to +50°C	Battery Total Quantity:	No		
Battery Minimum Run Time (approx. run time at #watts): Battery Mounting (hot swap/fixed): No EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Operating Temperature: Operating Temperature: Operating Temperature: Operating Temperature: Operating Temperature: No Operating Temperature:	Battery String Voltage:	No		
Battery Mounting (hot swap/fixed): EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Operating Temperature: -15°C to +50°C	Battery String (number of strings, quantity per string)	No		
EMI and ENVIRONMENTAL Application (shipboard/airborne/ground/all): Operating Temperature: -15°C to +50°C	Battery Minimum Run Time (approx. run time at #watts):	No		
Application (shipboard/airborne/ground/all): Operating Temperature: Ground -15°C to +50°C	Battery Mounting (hot swap/fixed):	No		
Operating Temperature: -15°C to +50°C	EMI and ENVIRONMENTAL			
	Application (shipboard/airborne/ground/all):	Ground		
Humidity: 0-95%, non-condensing	Operating Temperature:	-15°C to +50°C		
	Humidity:	0-95%, non-condensing		

 ${\bf Specifications\ subject\ to\ change\ without\ notice.}$