# JUPITER SERIES THREE PHASE FREQUENCY CONVERTER 10 KVA to 450+ KVA Three Phase 50 / 60 / 400 Hz Sine-Wave GALVANIC ISOLATED

# **APPLICATIONS**

Nova frequency converters are high reliability power sources specifically designed for demanding applications in high shock, vibration, humidity, and EMI environments. They can be built to meet MIL-STD-810, MIL-STD-1399, MIL-STD-1472, MIL-STD-461, and other standards optionally.

- Military programs, vehicular, shipboard, aircraft, and shelters
- □ Communications Systems
- □ Cellular Sites
- □ European Power / Export Testing
- □ *Power Conditioning & Frequency Stabilization*
- □ U.S. Power Abroad
- Railroad Signaling Power



**OPTIONAL FEATURES SHOWN** 

# **FEATURES**

- Complete input to output 'Galvanic' isolation. Overload and short circuit protection on
- High frequency (almost silent) operation
- Push button starting and stopping
- Diagnostic panel with LCD and LED display
- Soft start
- Maintenance free batteries can be added for UPS capability (consult factory)
- Overload and short circuit protection on output
- All electronics are built in modular front access and front removable sub assemblies for easy service and maintenance
- Available options to meet military specs
- E/F Circuit for aircraft applications
- Parallel option for increased power



# NOVAIELECTRIC

www.novaelectric.com novasales@theallpower.com



### **MONITORING FEATURES**

The Converter includes an RS232 communication option called UPSCOM. This is an RS232 connection to a PC that can monitor the three phase information related to the converter output and any abnormal conditions that have occurredin real time. Standard commercially available software is provided. The RS232 Feature is included at no additional charge.

**FRONT PANEL LCD DISPLAY AND LED INDICATORS** - These will report all Converter parameters, including input and output voltages, currents, frequency, DC voltage, current, and many other functions.

**LCD DISPLAY** - Real time status, data, and historical events are displayed by the LCD display. The Converter parameters, real time clock, and buzzer alarm also can be set through this LCD. The LCD is backlit by LEDs for easy visuals.

**STATUS LEDs** - A series of LEDs representing all the important status information of the Converter provide information to the user. These LEDs are especially important when abnormal conditions occur. Since these LEDs are located behind the transparent window, the user can see them clearly without opening the door. LED descriptions are as follows:

- CONVERTER ON Converter is running normally.
- CONVERTER SS Converter static switch is on while the reserve static switch is opened (off).
- SHORT CIRCUIT Converter output is in short circuit state.
- FUSE / OVERTEMP SD Converter has shut down due to either fuse open or high temperature.
- CONVERTER FAIL SHUT DOWN Converter has shut down due to low converter AC output.
- BYPASS ON SHUT DOWN Converter shut down due closed bypass breaker (while inverter running).
- OVERLOAD SHUT DOWN Converter shut down due to overload of the converter for a
  period greater than the converter can accept. The converter will start after 7 seconds.
- 70% LOAD load connected to the output is over 70% of the converter rating.
- 110% LOAD load connected to the output is over 110% of the converter rating.
- 125% LOAD load connected to the output is over 125% of the converter rating.
- 150% LOAD load connected to the output is over 150% of the converter rating.
- RESERVE AC FAIL reserve AC magnitude is out of range.
- RESERVE FREQ FAIL reserve frequency is out of range.
- BATTERY LOW DC bus (or battery) is lower than specified range. Low battery shut down will occur soon.

**BATTERY LOW SHUT DOWN** – Converter shut down due to DC bus (or battery) lower than the acceptable DC voltage of the converter.

### **COMMUNICATIONS OPTIONS**

Some popular communications options available at additional cost include the following:

**UPSCAN:** This is a hand held remote display and control module with LCD and LED display that can monitor up to 99 converter units via RS-485 at a remote distance of up to 3,000 feet.

**UPSCALL:** This is a modem that will automatically dial out to a specified number when an abnormal situation occurs.

**NETAGENT:** This provides capability to monitor the converter over the internet. It includes the appropriate additional SNMP card and microprocessor. The software required is provided separately.

**EMERGENCY STOP** – Converter shutdown activated by emergency stop switch.

**DATA LINE** - Blink when data is transmitted to or received from the communication port.

**WARNING LEDs** – When abnormal condition occurs, these LEDs will light to warn the user of the cause of the fault condition. Therefore all these LEDs are off under normal condition. These LEDs are:

**RECT AC FAIL** – Rectifier AC input is abnormal either due to AC magnitude out of the range or phase rotation error; rectifier shut down.

**RESERVE FAIL** – Reserve AC input is abnormal either due to AC magnitude out of range or frequency out of range.

FUSE/TEMP - Either converter fuse is open or over temperature has occurred.

OVERLOAD - Output is overloaded by over 110%, 125% or 150%

HIGH DC - This LED will light as long as the DC voltage is over 430VDC.

BAT LOW - This LED will light when the DC voltage is lower than 320VDC.

**BAT LOW STOP** – This LED will light when the DC voltage is lower than 295VDC, inverter on is inhibited.

**FAULT** – The converter is off due to abnormal conditions such as overload, short circuit, high DC fuse over temperature, bypass breaker on emergency stop.

**AUDIBLE ALARM** – The audible alarm will beep under one of the following conditions:

### CONVERTER IS OVERLOADED

- 110% beep once every 3 seconds
- 125% beep once every second
- 150% beep twice every second

**CONVERTER IS SHORT CIRCUITED** – Beeps continuously

FUSE OPEN - Beeps continuously

HEAT SINK OVER TEMPERATURE – Beeps continuously

HIGH DC SHUTDOWN - Beeps continuously

BYPASS ON STOP - Beeps continuously

**EMERGENCY ON STOP** – Beeps continuously. The buzzer will also beep once every time the converter is switched on or off to acknowledge to the user that his key entry is valid and accepted.

### OTHER OPTIONS

**SHOCK MOUNT OPTION** – The cabinet can be shock mounted using optional rubber or coil type isolators. This will enable the unit to withstand shock levels as specified in MIL-S-901

**RUGGEDIZING OPTION** – This option will add conformal coating and other additional internal structural members to allow the unit to meet many portions of MIL-STD-810 including shock, vibration, and humidity.

**TURN ON SERVICE OPTION** – We offer a turn on service that will ensure the Converter has been properly installed and the full warranty is in effect (failures caused by incorrect installation are not covered by the warranty.) If this option is selected, the customer will also automatically receive an additional 3 months added to the warranty at no additional charge.

**SPARE PARTS KIT OPTION** – We offer a spare parts package that includes one of each board, spare fuses, spare semiconductors, and spare fans. These spare part kits are priced lower when ordered with the initial order than if they are ordered later on.

**DRIP SHIELD OPTIONS** – This option offers protection against falling or dripping liquids.

**CUSTOMIZED EPO** – This feature can be customized to trip off current breakers or perform other inhibits depending customer needs.

# **SPECIFICATIONS FOR JUPITER FREQUENCY CONVERTER**

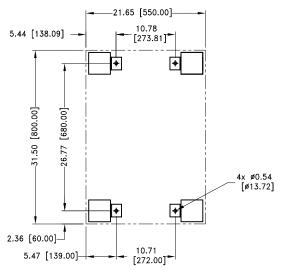
FREQUENCY CONVERTER		3-PHASE INPUT / 3-PHASE OUTPUT												
KVA		10	20	30	40	50	60	80	100	120	160	240	320	450
	Input Voltage (VAC)	Please Specify   120/208   220/380   230/400   240/415   277/480   220 3delta   240 3delta   380 3delta   400 3delta   480 3delta												
	Input Range	+/- 20% (>+20% is available upon request)												
	Input Frequency	Please Specify: 50 Hz or 400 Hz												
	Input Frequency Range	+/- 5% (wider ranges offered, please consult factory)												
	Power Walk In	0% - 100%: 20 sec.												
	Rectifier	98%												
	Rectification Type	6 Pulse Standard, 12 Pulse Optional 12 Pulse Standard												
	Output Voltage (VAC)	Please Specify   120/208   220/380   230/400   240/415   277/480   220 3delta   240 3delta   380 3delta   400 3delta   480 3delta												
	Wave Form	Sinewave												
	Output Power Factor	0.7 lead to lag												
	Output Frequency (Free Running)	Please Specify: 50 Hz or 60 Hz or 400 Hz (crystal controlled) - 91.66, 100 or 250 Hz optional												
P	nase Shift Under 100% Unbalanced Load	<0.5%												
	THD (Linear Load)	<2%												
ס	<110%	Continuous												
loa	110-125%	15 minutes												
Overload	125-150%	10 minutes												
0	>150%	1 minute												
Efficiency (100% Load)(%)		93			93.5 94			94.5		95				
Overall Efficiency (%)		91			91.5 92			92.5		93				
Maximum Heat Dissipation (kw)		0.7	1.4	1.9	2.6	3	3.5	4.6	5.4	6.5	8.7	13	17.4	25.2
BTU/h @ Full Load		2.4K	4.8K	6.5K	8.9K	10.3K	12K	16K	19K	22K	30K	45K	60K	86K
Audible Noise		<65 dBA (at 1m) <67dBA (at 1m)												
	Temperature	-10°C to +50°C (Extended ranges available)												
	Humidity	0%-95% (Non-condensing)												
	Altitude	<1500 m Above Sea Level												
	EN50091-1,-2	Yes												
	Short Circuit Protection	Yes												
	MTBF	100,000 Hours for loss of AC Output												
	Lightning / EMC Filter	MOV / Input & Output ( FCC CLASS A)												
	Galvanic Isolation	Input and Output True Galvanic Isolation												
	LED, LCD, Audible Alarm	Yes												
Re	Remote Control / Communication Interface		Monitoring 1~99 Units simultaneously / Dry Contact, RS-232, RS-485 (Optional)											

NOTE: Single phase output available on select models - consult factory for details.

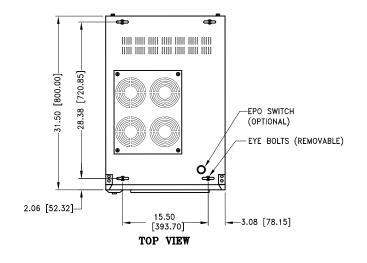
# PARTIAL STANDARD PRODUCT LISTING FOR JUPITER FREQUENCY CONVERTER

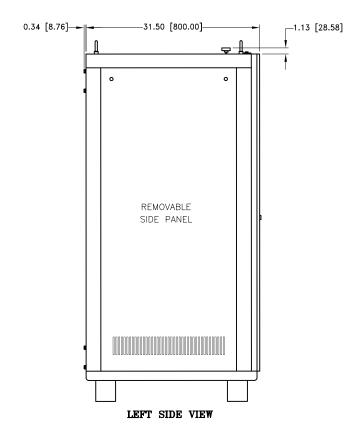
SOLIC CULTUM MOCES   N/A   N								
				IN	OUT		WEIGHT	WEIGHT
JPC101GS-1-120008-220080	50 HZ OUTPUT MODELS	KVA	KW.	(VAC)	(VAC)	DIMENSIONS	(KG)	(LBS)
JPC000039-1200080	JFC10K3/5-120/208-220/380	10	8	, ,	, ,	63" (H) x 22" (W) x 31.5" (D)	` '	` '
## 120/03/88   ## 120/03/89   ## 120	JFC20K3/5-120/208-220/380	20	16	120/208	220/380	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	330	726
	JFC30K3/5-120/208-220/380	30	24	120/208	220/380	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	480	1056
JFCSGNC36-120208-202080	JFC40K3/5-120/208-220/380	40	32	120/208	220/380	, , , , , , , , , , , , , , , , , , , ,	560	1232
JFCBGCS-F-120208-220380	JFC50K3/5-120/208-220/380	50	40	120/208	220/380	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	650	1430
JFCBOKK96-1202080	JFC60K3/5-120/208-220/380	60	48	120/208	220/380	, , , , , , , , , , , , , , , , , , , ,	780	1716
JPC100KUS-120/208-220/380 120 96 120/208 220/380 63° (th) x 43.5° (W) x 31.5° (D) 1500 2310 JPC120KUS-207208-220/380 120 96 120/208 220/380 63° (th) x 43.5° (W) x 31.5° (D) 1300 2826 JPC120KUS-277/480-220/380 200 160 277/480 220/380 63° (th) x 43.5° (W) x 31.5° (D) 1600 3820 JPC20KUS-277/480-220/380 240 192 277/480 220/380 63° (th) x 87.0° (W) x 31.5° (D) 2700 5940 JPC20KUS-277/480-220/380 340 256 277/480 220/380 63° (th) x 87.0° (W) x 31.5° (D) 3800 JPC30KUS-277/480-220/380 340 256 277/480 220/380 63° (th) x 87.0° (W) x 31.5° (D) 3800 JPC30KUS-277/480-220/380 340 256 277/480 220/380 63° (th) x 87.0° (W) x 31.5° (D) 300 7260 JPC30KUS-277/480-220/380 450 360 277/480 220/380 63° (th) x 87.0° (W) x 31.5° (D) 300 7260 JPC30KUS-277/480-220/380 450 360 277/480 220/380 63° (th) x 320° (W) x 31.5° (D) 5100 11385 CONTACT FACTORY FOR SINGLE PHASE MODELS  SOUTH MODELS  KVA  KW.  N  OUT  DMESSIONS  VEGIT  WIGHT  (KG) (LBS) JPC30KUS-220/380-120/208 40 32 220/380 120/208 63° (th) x 22° (W) x 31.5° (D) 300 660 JPC30KUS-220/380-120/208 40 32 220/380 120/208 63° (th) x 22° (W) x 31.5° (D) 300 660 JPC30KUS-220/380-120/208 40 32 220/380 120/208 63° (th) x 22° (W) x 31.5° (D) 400 880 JPC30KUS-220/380-120/208 40 32 220/380 120/208 63° (th) x 22° (W) x 31.5° (D) 400 880 JPC30KUS-220/380-120/208 40 32 220/380 120/208 63° (th) x 22° (W) x 31.5° (D) 660 1405 JPC30KUS-220/380-120/208 60 48 220/380 120/208 63° (th) x 22° (W) x 31.5° (D) 560 140 140 140 140 140 140 140 140 140 14	JFC80K3/5-120/208-220/380	80	64	120/208	220/380	, , , , , , , , , , , , , , , , , , , ,	920	2024
JFC120K36-120/208-220/380 180 180 128 120/208 220/380 63° (H) x 43.5° (W) x 31.5° (D) 1800 3520 JFC10K36-120/208-220/380 180 128 120/208 220/380 63° (H) x 43.5° (W) x 31.5° (D) 1800 3520 JFC20K36-277/480-220/380 200 180 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 2700 6940 JFC240K35-277/480-220/380 300 240 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 3200 7040 JFC320K36-277/480-220/380 300 240 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 3200 7040 JFC320K36-277/480-220/380 300 240 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 3200 7040 JFC320K36-277/480-220/380 300 256 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 3200 7040 JFC320K36-277/480-220/380 300 256 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 3200 7040 JFC320K36-277/480-220/380 300 266 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 5100 11385 CONTACT FACTORY FOR SNIGE IPHASE MODELS (W) X 31.5° (D) 5100 11385 JFC10K26-220/380-120/208 10 8 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 270 590 JFC20K36-220/380-120/208 20 16 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 270 590 JFC20K36-220/380-120/208 30 24 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 270 590 JFC20K36-220/380-120/208 40 32 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 50 40 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 60 48 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 60 48 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 60 48 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 60 48 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 60 44 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 60 44 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880 JFC30K36-220/380-120/208 60 44 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 500 1495 JFC30K36-220/380-120/208 100 80 44 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 500 1495 JFC30K36-220/380-120/208 100 80 44 22	JFC100K3/5-120/208-220/380	100	80	120/208	220/380	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1050	2310
JFC100K3/6-120/208-220/380 100 128 120/208 220/380 63° (H) x 43.5° (W) x 31.5° (D) 1000 3520  JFC200K3/5-277/480-220/380 200 160 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 2900 6880  JFC200K3/5-277/480-220/380 300 240 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 2900 6880  JFC200K3/5-277/480-220/380 300 240 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 3900 7040  JFC250CK3/5-277/480-220/380 300 256 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 3300 7280  JFC3CSCK3/5-277/480-220/380 450 390 277/480 220/380 63° (H) x 87.0° (W) x 31.5° (D) 5100 11385  CONTACT FACTORY FOR BINGLE PHASE MODELS  JFC3CSCK3/6-220/380-120/208 10 8 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 270 880  JFC3CSCK3/6-220/380-120/208 10 8 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 300 660  JFC3CSCK3/6-220/380-120/208 40 32 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 300 660  JFC3CSCK3/6-220/380-120/208 40 32 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880  JFC3CSCK3/6-220/380-120/208 60 40 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 400 880  JFC3CSCK3/6-220/380-120/208 60 48 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 680 1210  JFC3CSCK3/6-220/380-120/208 60 64 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 680 1240  JFC3CSCK3/6-220/380-120/208 60 64 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 680 1240  JFC3CSCK3/6-220/380-120/208 60 64 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 680 1240  JFC3CSCK3/6-220/380-120/208 60 64 220/380 120/208 63° (H) x 32° (W) x 31.5° (D) 680 1240  JFC3CSCK3/6-220/380-120/208 60 64 220/380 120/208 63° (H) x 22° (W) x 31.5° (D) 680 1240  JFC3CSCK3/6-220/380-120/208 60 64 220/380 120/208 63° (H) x 32° (W) x 31.5° (D) 680 1240  JFC3CSCK3/6-220/380-277480 200 60 64 220/380 277480 63° (H) x 35° (W) x 31.5° (D) 680 1240  JFC3CSCK3/6-220/380-277480 200 60 62/380 277480 63° (H) x 22° (W) x 31.5° (D) 680 1495  JFC3CSCK3/6-220/380-277480 300 240 220/380 277480 63° (H) x 22° (W) x 31.5° (D) 500 660  JFC3CSCK3/6-220/380-277480 300 24 120/208 115/200 63° (H) x 22° (W) x 31.5° (D) 500 660  JFC3CS	JFC120K3/5-120/208-220/380	120	96	120/208	220/380	. , , , , , , , , , , , , , , , , , , ,	1300	2826
JFC200K3/6-277/480-220/380 200 160 277/480 220/380 63′ (H) x 87.0′ (W) x 31.5′ (D) 2800 6380 JFC20K3/6-277/480-220/380 300 240 172 277/480 220/380 63′ (H) x 87.0′ (W) x 31.5′ (D) 2800 6380 JFC30K3/6-277/480-220/380 300 240 277/480 220/380 63′ (H) x 87.0′ (W) x 31.5′ (D) 3200 7040 JFC30K3/6-277/480-220/380 450 300 227/480 220/380 63′ (H) x 87.0′ (W) x 31.5′ (D) 3300 7260 JFC3K3/6-277/480-220/380 450 300 227/480 220/380 63′ (H) x 87.0′ (W) x 31.5′ (D) 3300 7260 JFC3K3/6-277/480-220/380 120/280 63′ (H) x 87.0′ (W) x 31.5′ (D) 11385 CONTACT FACTORY FOR SINGLE PHASE MODELS CONTACT FACTORY FOR SINGLE PHASE MODELS (KG) (LSS) JFC2K3/6-220/380-120/280 10 8 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 270 580 JFC2K3/6-220/380-120/280 20 16 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 300 660 JFC3K3/6-220/380-120/280 40 32 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 300 660 JFC3KK3/6-220/380-120/280 60 48 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 400 880 JFC3KK3/6-220/380-120/280 60 48 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 400 880 JFC3KK3/6-220/380-120/280 60 48 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 580 1210 JFC3KK3/6-220/380-120/280 60 48 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 580 1210 JFC3KK3/6-220/380-120/280 60 64 220/380 120/280 63′ (H) x 22′ (W) x 31.5′ (D) 580 1210 JFC3KK3/6-220/380-120/280 60 64 220/380 120/280 63′ (H) x 43.5′ (W) x 31.5′ (D) 580 120/580 JFC16K3/6-220/380-120/280 10 80 220/380 120/280 63′ (H) x 43.5′ (W) x 31.5′ (D) 580 140 220/380 JFC16K3/6-220/380-120/280 10 80 64 220/380 120/280 63′ (H) x 43.5′ (W) x 31.5′ (D) 580 140 140 140 140 140 140 140 140 140 14	JFC160K3/5-120/208-220/380	160	128	120/208	220/380	· · · · · · · · · · · · · · · · · · ·	1600	3520
JFC240K3/5-277/480-220/380 240 192 277/480 220/380 63' (fl) x 87.0' (W) x 31.5' (D) 3200 6380 JFC300K3/5-277/480-220/380 300 240 277/480 220/380 63' (fl) x 87.0' (W) x 31.5' (D) 3200 7040 JFC300K3/5-277/480-220/380 300 240 277/480 220/380 63' (fl) x 87.0' (W) x 31.5' (D) 3200 7040 JFC300K3/5-277/480-220/380 450 360 277/480 220/380 63' (fl) x 87.0' (W) x 31.5' (D) 3200 7040 JFC300K3/5-277/480-220/380 450 360 277/480 220/380 63' (fl) x 87.0' (W) x 31.5' (D) 5100 11385 CONTACT FACTORY FOR SINGLE PHASE MODELS (KG) (LSS) JFC10K3/6-220/380-120/208 10 8 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 270 550 JFC20K3/6-220/380-120/208 20 16 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 400 880 JFC30K3/6-220/380-120/208 40 32 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 400 880 JFC30K3/6-220/380-120/208 60 40 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 400 880 JFC30K3/6-220/380-120/208 60 48 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 550 1210 JFC30K3/6-220/380-120/208 60 48 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 680 1495 JFC30K3/6-220/380-120/208 60 48 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 680 1496 JFC30K3/6-220/380-120/208 80 64 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 680 1496 JFC30K3/6-220/380-120/208 80 64 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 680 1496 JFC30K3/6-220/380-120/208 100 80 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 680 1496 JFC30K3/6-220/380-120/208 100 80 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 680 1496 JFC30K3/6-220/380-120/208 100 80 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 680 1496 JFC30K3/6-220/380-120/208 100 80 220/380 120/208 63' (fl) x 22' (W) x 31.5' (D) 500 500 JFC20K3/6-220/380-120/208 100 80 64 220/380 120/208 63' (fl) x 25' (W) x 31.5' (D) 1450 300 660 1220 300 500 500 500 500 500 500 500 500 50	JFC200K3/5-277/480-220/380	200	160	277/480	220/380	· · · · · · · · · · · · · · · · · · ·	2700	5940
JFC300K3/5-277/480-220380 300 240 277/480 220380 63° (fig) x 87.0° (W) x 31.5° (D) 3200 7040 JFC320K3/5-277/480-220380 450 320 266 277/480 220380 63° (fig) x 87.0° (W) x 31.5° (D) 3300 7280 JFC450K3/5-277/480-220380 450 360 277/480 220380 63° (fig) x 87.0° (W) x 31.5° (D) 5100 11385  CONTACT FACTORY FOR SINGLE PHASE MODELS  SOLV CUITUUT MODELS KVA KW. (VAC) (VAC) (VAC) (VAC) (VAC) (KG) (LBS) JFC10K3/6-220380-120208 10 8 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 270 590 JFC30K3/6-220380-120208 30 24 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 400 880 JFC30K3/6-220380-120208 40 32 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 400 880 JFC30K3/6-220380-120208 50 40 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 400 880 JFC30K3/6-220380-120208 60 44 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 400 880 JFC30K3/6-220380-120208 60 44 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 400 880 JFC30K3/6-220380-120208 60 44 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 500 1210 JFC30K3/6-220380-120208 60 44 220380 120208 63° (fig) x 22° (W) x 31.5° (D) 500 1210 JFC30K3/6-220380-120208 10 64 220380 120208 63° (fig) x 32° (W) x 31.5° (D) 500 1210 JFC30K3/6-220380-120208 10 64 220380 120208 63° (fig) x 32° (W) x 31.5° (D) 500 1210 JFC30K3/6-220380-120208 10 60 80 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 500 1210 JFC30K3/6-220380-120208 10 60 80 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 1800 1495 JFC10K3/4-220380-120208 10 10 80 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 1800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 1800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 1800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 1800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 1800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 2700 6800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 2700 6800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 2700 6800 128 220380 120208 63° (fig) x 3.5° (W) x 31.5° (D) 2700 6800 120208 120208 63° (fig) x 3.5° (W) x 31.5° (D) 1800 6800 120208 120208 1202		240		277/480		`	2900	6380
JFC320K3/6-277/480-220/380 320 256 277/480 220/380 63" (H) x 870" (W) x 31.5" (D) 3300 7260  JFC450K3/6-277/480-220/380 450 360 277/480 220/380 63" (H) x 130" (W) x 31.5" (D) 6100 11/385  CONTACT FACTORY FOR SINGLE PHASE MODELS  KVA KW. (VAC) (VAC) DIVENSIONS (LIS)  JFC10K3/6-220/380-120/208 10 8 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 300 660  JFC30K3/6-220/380-120/208 20 16 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 300 660  JFC30K3/6-220/380-120/208 30 24 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 400 880  JFC30K3/6-220/380-120/208 40 32 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 400 880  JFC30K3/6-220/380-120/208 50 40 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 400 880  JFC30K3/6-220/380-120/208 60 48 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 550 1210  JFC30K3/6-220/380-120/208 80 64 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 550 1210  JFC30K3/6-220/380-120/208 80 64 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 550 1210  JFC30K3/6-220/380-120/208 80 64 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 880 1495  JFC30K3/6-220/380-120/208 100 80 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 820 1800  JFC100K3/6-220/380-120/208 100 80 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 80 2900  JFC100K3/6-220/380-120/208 160 128 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 950 2900  JFC200K3/6-220/380-277/480 20 160 128 220/380 277/480 63" (H) x 43.5" (W) x 31.5" (D) 1450 3190  JFC200K3/6-220/380-277/480 30 240 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC30K3/6-220/380-277/480 30 240 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC30K3/6-120/208 115/200 10 8 120/208 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC30K3/6-120/208-115/200 10 8 120/208 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC30K3/6-120/208-115/200 10 8 120/208 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC30K3/6-120/208-115/200 10 8 120/208 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC30K3/6-120/208-115/200 60 48 120/208 115/200 63" (H) x 87.0" (W) x 31.5						` , , , , , , , , , , , , , , , , , , ,		
### JFC450K3/5-277/480-220/380   450   360   277/480   220/380   63° (H) x 130° (W) x 31.5° (D)   5100   11385    **CONTACT FACTORY POR SINGLE PHASE MODELS**  **NOUT**  **NOUTH**  **		320	256	277/480	220/380	, , , , , , , ,	3300	7260
CONTACT FACTORY FOR SINGLE PHASE MODELS    N						( ) ( )		
No.   Court	0. 0.00.000 2117 100 2207000	.00					1 0.00	
SOLIC CUTTLY MODELS								
JFC10K3/6-220/380-120/208  JFC20K3/6-220/380-120/208  20  16  Z20/380  JFC20K3/6-220/380-120/208  30  Z4  Z20/380  JFC20K3/6-220/380-120/208  30  Z4  Z20/380  JFC20K3/6-220/380-120/208  30  Z4  Z20/380  JFC20K3/6-220/380-120/208  30  JFC40K3/6-220/380-120/208  40  32  Z20/380  JFC20K3/6-220/380-120/208  40  32  Z20/380  JFC20K3/6-220/380-120/208  50  40  Z20/380  JFC20K3/6-220/380-120/208  50  40  Z20/380  JFC20K3/6-220/380-120/208  50  40  Z20/380  JFC20K3/6-220/380-120/208  63* (H) x 22** (W) x 31.5** (D)  550  1210  JFC80K3/6-220/380-120/208  80  64  Z20/380  JFC30K3/6-220/380-120/208  80  64  Z20/380  JFC30K3/6-220/380-120/208  80  64  Z20/380  JFC10K3/6-220/380-120/208  100  80  Z20/380  JFC10K3/6-220/380-120/208  100  80  Z20/380  JFC10K3/6-220/380-120/208  100  80  Z20/380  JFC160K3/6-220/380-120/208  100  80  Z20/380  JFC30K3/6-220/380-120/208  100  80  Z20/380  JFC30K3/6-220/380-120/208  100  300  JFC30K3/6-220/380-27/480  200  JFC30K3/6-220/380-27/480  300  Z40  Z20/380  Z77/480  G3** (H) x 43.5** (W) x 31.5** (D)  Z500  S500  JFC30K3/6-220/380-27/480  300  Z40  Z20/380  Z77/480  G3** (H) x 87.0** (W) x 31.5** (D)  Z500  S500  JFC320K3/6-220/380-27/480  300  Z40  Z20/380  Z77/480  G3** (H) x 87.0** (W) x 31.5** (D)  Z500  S500  JFC320K3/6-220/380-27/480  300  Z40  Z20/380  Z77/480  G3** (H) x 87.0** (W) x 31.5** (D)  Z500  Z5	60 HZ OUTPUT MODELS	KVA	KW.			DIMENSIONS		
JFC20K3/6-220/380-120/208 20 16 220/380 120/208 63° (H) x 22" (W) x 31.5° (D) 400 880 JFC20K3/6-220/380-120/208 40 32 220/380 120/208 63° (H) x 22" (W) x 31.5° (D) 400 880 JFC3/6X/6-220/380-120/208 60 40 220/380 120/208 63° (H) x 22" (W) x 31.5° (D) 400 880 JFC3/6X/6-220/380-120/208 60 40 220/380 120/208 63° (H) x 22" (W) x 31.5° (D) 550 1210 JFC3/6X/6-220/380-120/208 60 40 220/380 120/208 63° (H) x 22" (W) x 31.5° (D) 550 1210 JFC3/6X/6-220/380-120/208 60 48 220/380 120/208 63° (H) x 22" (W) x 31.5° (D) 680 1495 JFC3/6X/6-220/380-120/208 80 64 220/380 120/208 63° (H) x 43.5° (W) x 31.5° (D) 680 1495 JFC3/6X/6-220/380-120/208 100 80 220/380 120/208 63° (H) x 43.5° (W) x 31.5° (D) 820 1800 JFC1/20K3/6-220/380-120/208 120 98 220/380 120/208 63° (H) x 43.5° (W) x 31.5° (D) 1180 2596 JFC1/20K3/6-220/380-120/208 160 128 220/380 120/208 63° (H) x 43.5° (W) x 31.5° (D) 1180 2596 JFC2/6X/6-220/380-120/208 160 220/380 277/480 63° (H) x 43.5° (W) x 31.5° (D) 1450 3190 JFC2/6X/6-220/380-277/480 200 160 220/380 277/480 63° (H) x 43.5° (W) x 31.5° (D) 2500 5500 JFC2/6X/6-220/380-277/480 300 240 220/380 277/480 63° (H) x 87.0° (W) x 31.5° (D) 2700 5940 JFC3/6X/6-220/380-277/480 300 240 220/380 277/480 63° (H) x 87.0° (W) x 31.5° (D) 3000 6600 JFC3/6X/6-220/380-277/480 450 360 380 277/480 63° (H) x 87.0° (W) x 31.5° (D) 3000 6600 JFC2/6X/6-20/380-277/480 450 360 380 277/480 63° (H) x 87.0° (W) x 31.5° (D) 3100 6800 JFC3/6X/6-20/380-277/480 450 360 380 277/480 63° (H) x 22" (W) x 31.5° (D) 310 680 JFC3/6X/6-20/380-277/480 30 24 120/208 115/200 63° (H) x 22" (W) x 31.5° (D) 310 680 JFC3/6X/6-20/380-277/480 450 360 380 277/480 63° (H) x 22" (W) x 31.5° (D) 310 680 JFC3/6X/6-20/6X/6-2	1 <b>20</b> 121/2/2 222 (222 122/22			, ,	, ,		` '	, ,
JFC30K3/6-220/380-120/208 30 24 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 400 880  JFC40K3/6-220/380-120/208 50 40 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 400 880  JFC50K3/6-220/380-120/208 50 40 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 550 1210  JFC50K3/6-220/380-120/208 60 48 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 680 1495  JFC80K3/6-220/380-120/208 80 64 220/380 120/208 63" (H) x 22" (W) x 31.5" (D) 820 1800  JFC100K3/6-220/380-120/208 100 80 64 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 820 1800  JFC100K3/6-220/380-120/208 100 80 64 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 1800  JFC100K3/6-220/380-120/208 160 120 96 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 1800  JFC100K3/6-220/380-120/208 160 128 220/380 120/208 63" (H) x 43.5" (W) x 31.5" (D) 1180 2596  JFC160K3/6-220/380-277/480 200 160 220/380 277/480 63" (H) x 43.5" (W) x 31.5" (D) 1450 3190  JFC200K3/6-220/380-277/480 200 160 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 2500 5500  JFC300K3/6-220/380-277/480 300 240 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 2700 5940  JFC300K3/6-220/380-277/480 320 256 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC320K3/6-220/380-277/480 320 256 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3100 6800  JFC300K3/4-120/208-115/200 10 8 120/208 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3100 6800  JFC300K3/4-120/208-115/200 30 24 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 310 680  JFC300K3/4-120/208-115/200 30 24 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 310 680  JFC300K3/4-120/208-115/200 40 32 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 310 680  JFC300K3/4-120/208-115/200 50 40 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 550 1170  JFC500K3/4-120/208-115/200 50 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 550 1170  JFC500K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 500 1170  JFC100K3/4-120/208-115/200 50 40 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 500 1170  JFC100K3/4-120/208-115/200 60 64 120/208 115/200 63" (H						63" (H) x 22" (W) x 31.5" (D)		
JFC240K3/6-220/380-120/208		-				63" (H) x 22" (W) x 31.5" (D)		
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JFC200K3/6-220/380-277/480 200 160 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 2500 5500 JFC240K3/6-220/380-277/480 300 240 192 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 2700 5940 JFC300K3/6-220/380-277/480 300 240 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600 JFC320K3/6-220/380-277/480 320 256 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3100 6800 JFC320K3/6-320/380-277/480 450 360 380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 4500 9900 JFC450K3/6-380(3)-277/480 140 450 360 380 277/480 63" (H) x 130" (W) x 31.5" (D) 4500 9900 JFC30K3/4-120/208-115/200 10 8 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 270 590 JFC20K3/4-120/208-115/200 30 24 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 460 1010 JFC40K3/4-120/208-115/200 40 32 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 460 1010 JFC30K3/4-120/208-115/200 50 40 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 550 1170 JFC30K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 620 1360 JFC30K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 730 1605 JFC30K3/4-120/208-115/200 80 64 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 870 1910 JFC30K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 870 1910 JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 100 2200 JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 120 2680 JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 120 2680 JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680 JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680 JFC10K3/4-277/480-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680 JFC10K3/4-277/480-115/200 200 160 128 120/208 115/200 63" (H) x 87.0" (W) x 31.5" (D) 1220 2680 JFC10K3/4-277/480-115/200 200 160 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 2500 5500 JFC240K3/4-277/480-115/200 240 192 277/480 115/200 63" (H) x 87.0"	JFC120K3/6-220/380-120/208	120	96	220/380	120/208	63" (H) x 43.5" (W) x 31.5" (D)	1180	2596
JFC240K3/6-220/380-277/480 240 192 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 2700 5940  JFC300K3/6-220/380-277/480 300 240 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC320K3/6-220/380-277/480 320 256 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3100 6800  JFC450K3/6-380(3)-277/480 450 360 380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 4500 9900  400 HZ OUTPUT MODELS KVA KW. (VAC) (VAC)  JFC10K3/4-120/208-115/200 10 8 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 270 590  JFC20K3/4-120/208-115/200 30 24 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 460 1010  JFC40K3/4-120/208-115/200 40 32 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 460 1010  JFC50K3/4-120/208-115/200 50 40 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 550 1170  JFC50K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 550 1170  JFC50K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 620 1360  JFC30K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 730 1605  JFC80K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 730 1605  JFC80K3/4-120/208-115/200 80 64 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 870 1910  JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1100 2200  JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC20K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC10K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC120K3/4-120/208-115/200 100 60 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 2700 5940  JFC240K3/4-277/480-115/200 240 192 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC320K3/6-220/380-277/480 320 256 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600	JFC160K3/6-220/380-120/208	160	128	220/380	120/208	63" (H) x 43.5" (W) x 31.5" (D)	1450	3190
JFC300K3/6-220/380-277/480 300 240 220/380 277/480 63° (H) x 87.0° (W) x 31.5° (D) 3000 6600 JFC320K3/6-320/380-277/480 320 256 220/380 277/480 63° (H) x 87.0° (W) x 31.5° (D) 3100 6800 JFC450K3/6-380(3)-277/480 450 360 380 277/480 63° (H) x 130° (W) x 31.5° (D) 4500 9900 MINERAL STANDOR STAND		200	160		277/480	63" (H) x 87.0" (W) x 31.5" (D)	2500	5500
JFC320K3/6-220/380-277/480 320 256 220/380 277/480 63" (H) x 87.0" (W) x 31.5" (D) 3100 6800 JFC450K3/6-380(3)-277/480 450 360 380 277/480 63" (H) x 130" (W) x 31.5" (D) 4500 9900 9900 9900 9900 9900 9900 9900	JFC240K3/6-220/380-277/480	240	192	220/380	277/480	63" (H) x 87.0" (W) x 31.5" (D)	2700	5940
JFC450K3/6-380(3)-277/480 450 360 380 277/480 63" (H) x 130" (W) x 31.5" (D) 4500 9900  400 HZ OUTPUT MODELS KVA KW. NOUT (VAC) (KG) (LBS)  JFC10K3/4-120/208-115/200 10 8 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 270 590  JFC20K3/4-120/208-115/200 30 24 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 310 680  JFC30K3/4-120/208-115/200 40 32 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 460 1010  JFC50K3/4-120/208-115/200 50 40 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 550 1170  JFC50K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 620 1360  JFC80K3/4-120/208-115/200 80 64 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 730 1605  JFC80K3/4-120/208-115/200 80 64 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 870 1910  JFC100K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC100K3/4-120/208-115/200 120 96 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC100K3/4-120/208-115/200 160 128 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC200K3/4-120/208-115/200 160 128 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC200K3/4-277/480-115/200 200 160 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 2700 5940  JFC320K3/4-277/480 115/200 300 240 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC320K3/6-220/380-277/480 320 256 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600	JFC300K3/6-220/380-277/480	300	240	220/380	277/480	63" (H) x 87.0" (W) x 31.5" (D)	3000	6600
No   No   No   No   No   No   No   No	JFC320K3/6-220/380-277/480	320	256	220/380	277/480	63" (H) x 87.0" (W) x 31.5" (D)	3100	6800
A00 HZ OUTPUT MODELS   KVA   KW.   (VAC)   (	JFC450K3/6-380(3)-277/480	450	360	380	277/480	63" (H) x 130" (W) x 31.5" (D)	4500	9900
A00 HZ OUTPUT MODELS   KVA   KW.   (VAC)   (								
(VAC)   (VAC)   (VAC)   (VAC)   (KG)   (LBS)	400 HZ OLITPLIT MODELS	ΚV/Λ	K///	IN	OUT	DIMENSIONS	WEIGHT	WEIGHT
JFC20K3/4-120/208-115/200         20         16         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         310         680           JFC30K3/4-120/208-115/200         30         24         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         460         1010           JFC40K3/4-120/208-115/200         40         32         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         550         1170           JFC50K3/4-120/208-115/200         50         40         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         620         1360           JFC80K3/4-120/208-115/200         60         48         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         730         1605           JFC80K3/4-120/208-115/200         80         64         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         870         1910           JFC100K3/4-120/208-115/200         100         80         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         120         2680           JFC120K3/4-120/208-115/200         120         96         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC160K3/4-120/208-115/200         160         128	400 FE COTT OF WOODLES	IVA	IXVV.	(VAC)	(VAC)	DIVILINGIONS	(KG)	(LBS)
JFC30K3/4-120/208-115/200         30         24         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         460         1010           JFC40K3/4-120/208-115/200         40         32         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         550         1170           JFC50K3/4-120/208-115/200         50         40         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         620         1360           JFC60K3/4-120/208-115/200         60         48         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         730         1605           JFC80K3/4-120/208-115/200         80         64         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         870         1910           JFC100K3/4-120/208-115/200         100         80         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1100         2200           JFC120K3/4-120/208-115/200         120         96         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         120         2680           JFC160K3/4-120/208-115/200         160         128         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         120         2680           JFC240K3/4-277/480-115/200         200         160 <td>JFC10K3/4-120/208-115/200</td> <td>10</td> <td>8</td> <td>120/208</td> <td>115/200</td> <td>63" (H) x 22" (W) x 31.5" (D)</td> <td>270</td> <td>590</td>	JFC10K3/4-120/208-115/200	10	8	120/208	115/200	63" (H) x 22" (W) x 31.5" (D)	270	590
JFC30K3/4-120/208-115/200         30         24         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         460         1010           JFC40K3/4-120/208-115/200         40         32         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         550         1170           JFC50K3/4-120/208-115/200         50         40         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         620         1360           JFC60K3/4-120/208-115/200         60         48         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         730         1605           JFC80K3/4-120/208-115/200         80         64         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         870         1910           JFC100K3/4-120/208-115/200         100         80         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         120         2680           JFC120K3/4-120/208-115/200         120         96         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC160K3/4-120/208-115/200         160         128         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC240K3/4-277/480-115/200         200         160 </td <td>JFC20K3/4-120/208-115/200</td> <td>20</td> <td>16</td> <td>120/208</td> <td>115/200</td> <td>63" (H) x 22" (W) x 31.5" (D)</td> <td>310</td> <td>680</td>	JFC20K3/4-120/208-115/200	20	16	120/208	115/200	63" (H) x 22" (W) x 31.5" (D)	310	680
JFC50K3/4-120/208-115/200 50 40 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 620 1360  JFC60K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 730 1605  JFC80K3/4-120/208-115/200 80 64 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 870 1910  JFC100K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1100 2200  JFC120K3/4-120/208-115/200 120 96 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC160K3/4-120/208-115/200 160 128 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC200K3/4-277/480-115/200 200 160 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 2500 5500  JFC240K3/4-277/480-115/200 240 192 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 2700 5940  JFC320K3/4-277/480-115/200 300 240 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC320K3/6-220/380-277/480 320 256 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3100 6820	JFC30K3/4-120/208-115/200	30	24	120/208	115/200	63" (H) x 22" (W) x 31.5" (D)	460	1010
JFC60K3/4-120/208-115/200 60 48 120/208 115/200 63" (H) x 22" (W) x 31.5" (D) 730 1605  JFC80K3/4-120/208-115/200 80 64 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 870 1910  JFC100K3/4-120/208-115/200 100 80 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1100 2200  JFC120K3/4-120/208-115/200 120 96 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC160K3/4-120/208-115/200 160 128 120/208 115/200 63" (H) x 43.5" (W) x 31.5" (D) 1220 2680  JFC200K3/4-277/480-115/200 200 160 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 2500 5500  JFC240K3/4-277/480-115/200 240 192 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 2700 5940  JFC320K3/4-277/480-115/200 300 240 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3000 6600  JFC320K3/6-220/380-277/480 320 256 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3100 6820	JFC40K3/4-120/208-115/200	40	32	120/208	115/200	63" (H) x 22" (W) x 31.5" (D)	550	1170
JFC60K3/4-120/208-115/200         60         48         120/208         115/200         63" (H) x 22" (W) x 31.5" (D)         730         1605           JFC80K3/4-120/208-115/200         80         64         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         870         1910           JFC100K3/4-120/208-115/200         100         80         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1100         2200           JFC120K3/4-120/208-115/200         120         96         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC160K3/4-120/208-115/200         160         128         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC200K3/4-277/480-115/200         200         160         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2500         5500           JFC300K3/4-277/480-115/200         240         192         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         3000         6600           JFC320K3/6-220/380-277/480         320         256         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         3100         6820	JFC50K3/4-120/208-115/200	50	40	120/208	115/200	63" (H) x 22" (W) x 31.5" (D)	620	1360
JFC80K3/4-120/208-115/200         80         64         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         870         1910           JFC100K3/4-120/208-115/200         100         80         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1100         2200           JFC120K3/4-120/208-115/200         120         96         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC160K3/4-120/208-115/200         160         128         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC200K3/4-277/480-115/200         200         160         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2500         5500           JFC300K3/4-277/480-115/200         240         192         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2700         5940           JFC320K3/6-220/380-277/480         320         256         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         3100         6820	JFC60K3/4-120/208-115/200	60	48	120/208	115/200		730	1605
JFC100K3/4-120/208-115/200         100         80         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1100         2200           JFC120K3/4-120/208-115/200         120         96         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC160K3/4-120/208-115/200         160         128         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC200K3/4-277/480-115/200         200         160         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2500         5500           JFC300K3/4-277/480-115/200         240         192         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2700         5940           JFC320K3/6-220/380-277/480         320         256         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         300         6820	JFC80K3/4-120/208-115/200	80	64	120/208	115/200	, , , , , , , , , , , , , , , , , , , ,	870	1910
JFC120K3/4-120/208-115/200         120         96         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         120         2680           JFC160K3/4-120/208-115/200         160         128         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC200K3/4-277/480-115/200         200         160         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2500         5500           JFC240K3/4-277/480-115/200         240         192         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2700         5940           JFC320K3/6-220/380-277/480         320         256         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         300         6820	JFC100K3/4-120/208-115/200	100	80	120/208	115/200	` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	1100	2200
JFC160K3/4-120/208-115/200         160         128         120/208         115/200         63" (H) x 43.5" (W) x 31.5" (D)         1220         2680           JFC200K3/4-277/480-115/200         200         160         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2500         5500           JFC240K3/4-277/480-115/200         240         192         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2700         5940           JFC300K3/4-277/480-115/200         300         240         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         3000         6600           JFC320K3/6-220/380-277/480         320         256         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         3100         6820	JFC120K3/4-120/208-115/200	120	96	120/208	115/200		1220	2680
JFC200K3/4-277/480-115/200         200         160         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2500         5500           JFC240K3/4-277/480-115/200         240         192         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         2700         5940           JFC300K3/4-277/480-115/200         300         240         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         3000         6600           JFC320K3/6-220/380-277/480         320         256         277/480         115/200         63" (H) x 87.0" (W) x 31.5" (D)         3100         6820				120/208	115/200			
JFC240K3/4-277/480-115/200       240       192       277/480       115/200       63" (H) x 87.0" (W) x 31.5" (D)       2700       5940         JFC300K3/4-277/480-115/200       300       240       277/480       115/200       63" (H) x 87.0" (W) x 31.5" (D)       3000       6600         JFC320K3/6-220/380-277/480       320       256       277/480       115/200       63" (H) x 87.0" (W) x 31.5" (D)       3100       6820								
JFC300K3/4-277/480-115/200     300     240     277/480     115/200     63" (H) x 87.0" (W) x 31.5" (D)     3000     6600       JFC320K3/6-220/380-277/480     320     256     277/480     115/200     63" (H) x 87.0" (W) x 31.5" (D)     3100     6820								
JFC320K3/6-220/380-277/480 320 256 277/480 115/200 63" (H) x 87.0" (W) x 31.5" (D) 3100 6820								
							1	
	JFC450K3/6-380(3)-277/480					63" (H) x 130" (W) x 31.5" (D)		

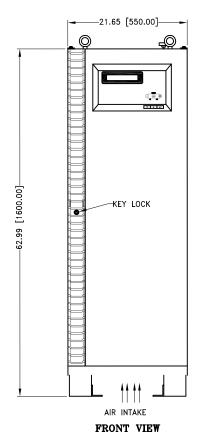
# **TYPICAL DIMENSION DRAWINGS (22" WIDE)**



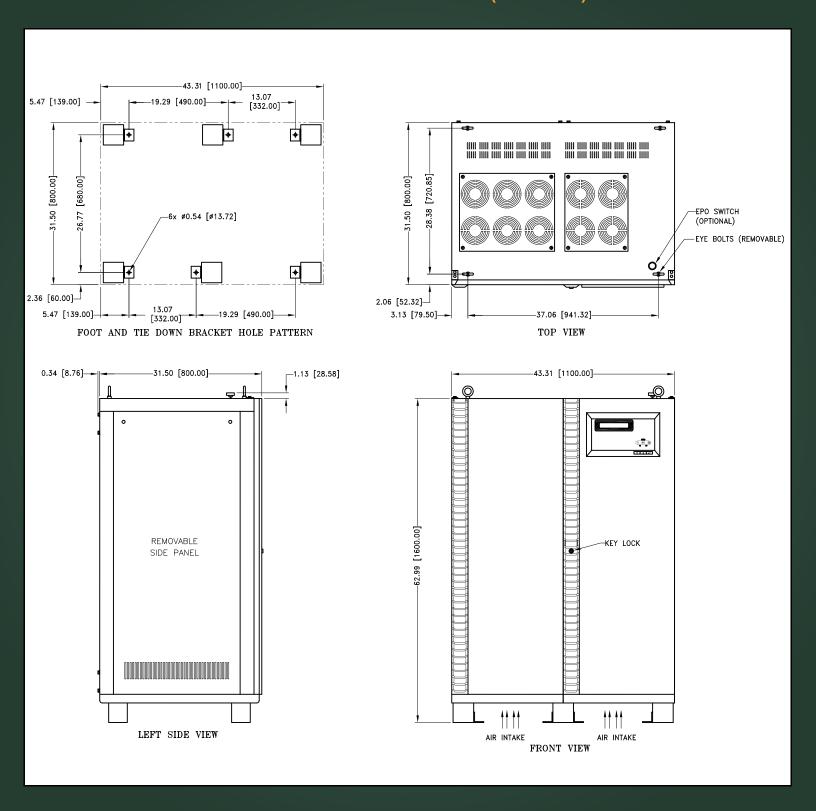
FOOT AND TIE DOWN BRACKET HOLE PATTERN



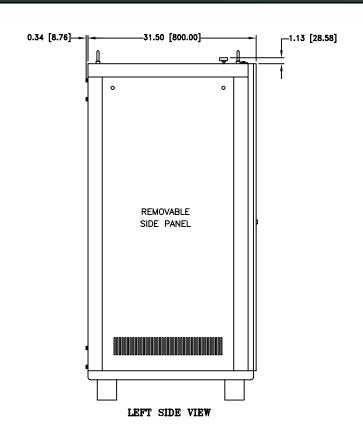


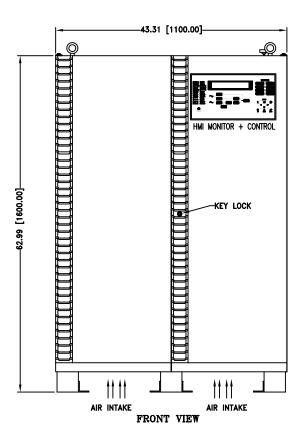


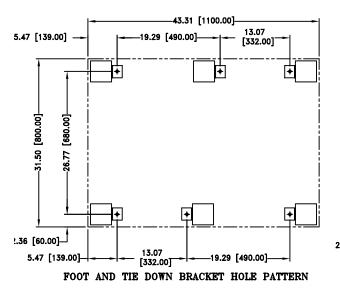
# **TYPICAL DIMENSION DRAWINGS (43.5" WIDE)**

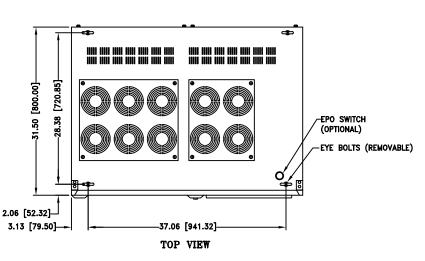


# **TYPICAL DIMENSION DRAWINGS (87" WIDE)**









# **RELIABILITY AND SERVICEABILITY (MTBF & MTTR)**

Reliability is a feature that is designed and integrated into every piece of equipment that carries the Nova Electric name. This is accomplished by utilizing state of the art circuitry which substantially reduces the total number of components (especially heat producing components). The result is greater efficiency, high reliability and low cost.

A study of installed units has indicated an MTBF of over 100,000 hours! MTBF figures are based upon ground fixed normal 25-degree ambient temperature and proper and preventive maintenance.

The MTTR for all items offered is approximately 30 minutes. Part of the maintenance and repair philosophy of the units is to use the BIT equipment to aid in fault isolation. At that point, a decision is made to either replace an LRU or a component within the power supply with a spare. The construction methods used throughout the JUPITER Series provide for user friendly service. All circuit boards are plug in and are easily accessed from the front of the system. Power modules are designed on slide out trays for easy access to all power semiconductors and similar power components. The MTTR value specified is based upon proper training of local maintenance technicians and engineers.

### **QUALITY CONTROL**

Nova Electric operates under a program of Continuous Quality Improvement (CQI,) as evidenced by its ISO-9001 Quality Management Systems Standard Certification and decades of compliance to formal Quality Control systems and procedures that remain in compliance with MIL-I-45208A inspection and MIL-STD-45662A calibration requirements. ISO registration was granted in 1997 by Underwriters Laboratories (UL) after first assessment. Operators are certified to J-STD-001A and IPC-A-610B Class 2 (formerly MIL-STD-2000) for soldered assemblies. Instructors certified by the DOD to MIL-STD-2000 Category C are on staff. Our COTS products benefit from the same rigorous QC procedures as original developed for our military customers.

Copies of our current ISO Certificate and Factory Quality Control Manual are available upon request.

## **MILITARY AND RUGGED COMMERCIAL (COTS) DESIGNS**

All of Nova Electric's products feature robust construction quality and rugged designs. They are suitable for demanding military, industrial, and commercial applications. Most products can be equipped to meet MIL-STD-461, MIL-STD-810, MIL-S-901, MIL-STD-167, MIL-STD-1399, MIL-STD-1472, and other important specifications as required. Please consult the factory about your specific application.

### **GOVERNMENT QUALITY ASSURANCE**

Our Quality Assurance Department will be glad to work with the designated Government Quality Assurance Representative (GQAR) on government or military projects.

### **WARRANTY**

All Nova Electric products are warranted against defects in material and workmanship for a period of one year from shipping date. Our obligation includes replacing, repairing, or adjusting products (excluding fuses) that prove to be defective during the warranty period. This warranty is fully transferable. If a product is sold to a manufacturer for use in a product for resale, the complete warranty is in force, providing the power system is sold as original equipment. Nova Electric assumes no liabilities for consequential damages of any kind through the use of misuse of its products by the purchaser or others. No other obligations are expressed or implied. Batteries used with or contained within Uninterruptible Power Supply Systems are sold with a "pass-along" battery warranty from the battery manufacturer. On site warranty repair is available at extra cost to cover the cost of travel to the work location. Extended warranties are also available - please consult the factory for details.