

## XO SERIES POWER INVERTERS



EXELTECH manufactures some of the most reliable inverter systems available. Power levels are expandable, and modules can be added or replaced in the field. The XO system can be configured for power levels from 2 to 6KW with 120 VAC output, 240 VAC bi-phase or 208 VAC 3 phase.

The XO system is extremely compact and lightweight. Power modules weigh only 12 lbs each. Output voltage is precisely regulated, so that no measurable voltage change occurs on the output as input voltage fluctuates. Typically, less than 1.2 volt change in output voltage will occur when the output load varies from 0 to 100% of rated power.

- **EXPANDABLE**
- **TRUE SINE WAVE**
- **2000 WATT MODULES**
- **EXTREMELY LIGHTWEIGHT**
- **COMPACT**
- **MICRO PROCESSOR CONTROLLED**

With distortion of 2% maximum, this inverter offers the cleanest sine wave power available. Models are available which cover 24, 48 and 66VDC battery systems. Custom models can be designed to meet your specific input voltage requirements.

# XO SERIES SYSTEM PART NUMBER

## EXELTECH XO SERIES MODEL NUMBER

\* \* \* -

STEP # 1 Model number always starts with XO

STEP # 2 Cage assembly

7	9
7" XO	9" XO

STEP # 3 Configuration

1 phase	2 phase	3 phase
B	E	F

STEP # 4 Enter three asterisks (\*)

STEP # 5 Character assignment by EXELTECH to represent changes or revision levels.

STEP # 6 To designate power level, enter the number or modules required. (\* if none used)

STEP # 7 Enter from the following character code  
Q = 100Vac, M = 120Vac, O = 230Vac

STEP # 8 To designate input voltage, enter the single character from the VDC voltage chart below:

VDC INPUT VOLTAGE CHART			
DC VOLTS	24	48	66
DESIGNATION	2	4	E

STEP # 9 Output frequency is designated by using the first number of the frequency. 5 for 50Hz, 6 for 60Hz, 4 for 400Hz

STEP # 10 Character assigned by EXELTECH to represent revision level of Power Modules.

STEP # 11 For options, enter two digit code. If no option enter (00).

EXAMPLE:      XO9B\*\*\*-3ME6-01

# POWER INVERTER SPECIFICATIONS

## OUTPUT POWER

CONTINUOUS POWER	SURGE POWER	NO LOAD POWER	OUTPUT VOLTAGE	OUTPUT CURRENT per KW	WEIGHT LBS.
2000W	4000W	12W	1	8.3 A	15
4000W	8000W	24W	1, 2	8.3 A	28.6
6000W	12000W	35W	1, 3	8.3 A	37

1 Single phase 100Vac, 120Vac +/- 2%  
 2 Bi-phase 100/200Vac, 120/240Vac +/- 2%  
 3 3 phase 100/173Vac, 120/208Vac +/- 2%

## PROTECTION CIRCUITRY

Over Voltage:	Shutoff at maximum input voltage, per input table.
Under Voltage:	Shutoff at minimum input voltage, per input table.
Thermal:	105 C internal temperature.
Output Short:	Unit shuts off: electronically limited. Manual reset required.

## INPUT

MODEL VOLTAGE	MINIMUM (TYPICAL)	SYSTEM (TYPICAL)	MAXIMUM (TYPICAL)	TYPICAL EFFICIENCY @ FULL POWER	PEAK EFFICIENCY @ 1/2 POWER
24V	21V	27.6V	30V	> 88%	> 90%
48V	42V	55.2V	60V	> 88%	> 90%
66V	57.8V	75.9V	82.5V	> 88%	> 90%

## ENVIRONMENTAL

Temperature:	-25°C to +25°C full power, derated -17% @ 50°C then 20% per 10°C above 50°C.
Humidity:	5 to 95% non-condensing
Cooling:	Thermostatically controlled variable speed forced air
Finish:	Powder coated
Warranty:	Two years parts and labor.

## GENERAL

CONDITIONS	MINIMUM	TYPICAL	MAXIMUM
WAVEFORM	-	SINUSOIDAL	-
LINE REGULATION	-	.1%	2%
LOAD REGULATION	-	1%	2%
DISTORTION	-	1.5%	2%
FREQUENCY	-1%	60Hz	+1%

## MECHANICAL

Case size:	7" Case HOLDS UP TO 2 MODULES
	9 inches High
	18 inches Deep
	7 inches Wide
	Weight: 28 lbs.
	9" Case HOLDS UP TO 3 MODULES
	9 inches High
	18 inches Deep
	9 inches Wide
	Weight: 37 lbs.