

EXELTECH

Manufacturer of True Sine Wave Power Inverters and Related Products

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, 66 and 108VDC battery systems. Custom models can be designed to meet your specific input voltage requirements.



XO SERIES POWER INVERTER SPECIFICATIONS

OUTPUT POWER

CONTINUOUS POWER	SURGE POWER	NO LOAD POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	WEIGHT LBS.
1700W	3400W	12W	100 +/-2%	16.7	15
3400W	6800W	24W	100 +/-2%	16.7	28.6
5100W	10200W	35W	100 +/-2%	16.7	37
2000W	4000W	12W	120 +/-2%	16.7 (15)*	15
4000W	8000W	24W	120 +/-2%	16.7 (15)*	28.6
6000W	12000W	35W	120 +/-2%	16.7 (15)*	37

*12Vdc Rating- 1800W

PROTECTION CIRCUITRY

Over Voltage: Shutoff at maximum input voltage, per input table.
 Under Voltage: Shutoff at minimum input voltage, per input table.
 Thermal: Shuts off due to over temperature condition.
 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
12V	10.4V	13.8V	15V	> 80%	> 83%
24V	20.8V	27.6V	30V	> 88%	> 90%
48V	41.6V	55.2V	60V	> 88%	> 90%
66V	57.2V	75.9V	82.5V	> 88%	> 90%
108V	93.6V	124.2V	135V	> 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.

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	108
DESIGNATION	2	4	E	I

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