

Manufacturer of True Sine Wave Power Inverters and Related Products

XP SERIES POWER INVERTERS



XP 125



XP 250



XP 600



XP 1100



XP 2000

Made in America, **EXELTECH XP SERIES INVERTERS** are the most affordable, reliable, lightweight and best regulated, true sine wave inverters available. The **XP SERIES** inverter will operate any AC load anywhere. Ultra lightweight, yet rugged enough for the most extreme mobile environments, the **XP SERIES** is available in 100Vac, 120Vac, or 230Vac in 50Hz, 60Hz or 400Hz for land, marine or military applications, worldwide.

- TRUE SINE WAVE
- 125 WATTS TO 2000 WATTS
- 12VDC TO 108VDC INPUT
- RACK MOUNT OPTIONAL
- REMOTE SWITCHING
- 21.5 YEARS MTBF

XP SERIES PART NUMBERING SYSTEM

EXELTECH XP SERIES XP _ - _ - _ - _ - 1 - _
MODEL NUMBER

Step 1: Model number always starts with XP.

Step 2: To designate wattage enter the single character code
 1 for 125, 2 for 250, 6 for 600, K for 1100, X for 2000

Step 3: To designate output voltage enter the single character code from the Vac chart

| Vac OUTPUT VOLTAGE CHART | | | |
|--------------------------|-----|-----|------|
| AC Volts | 100 | 120 | 230* |
| Designation | 0 | 1 | 3 |

*Not available in 125watt models

Step 4: To designate input voltage enter the single character code from the Vdc chart

| Vdc INPUT VOLTAGE CHART | | | | | | |
|-------------------------|----|----|----|----|----|-----|
| DC Volts | 12 | 24 | 32 | 48 | 66 | 108 |
| Designation | 1 | 2 | B | 4 | E | I |

Step 5: Output frequency is designated by using the first number of the frequency
 5 for 50Hz, 6 for 60Hz and 4 for 400 Hz

Step 6: This designates revision level (For EXELTECH use only).

Step 7: To designate option, enter the code from the option chart below. If no option is required please leave it blank.

| OPTION CHART | |
|-----------------------------------|-------|
| Option | Code |
| Conformal coating | 07 |
| Low idle current drain | 02* |
| Circuit board with heat sink only | 04** |
| 50MS transfer relay | 20*** |

* available thru a distributor only(only on XP1100W)

**available for OEM's only

***available on XP600 and XP1100 only

EXAMPLE: XP600 with
 117Vac output, 12Vdc input,
 60Hz with the conformal
 coating option would require
 the following model number:
XP6-1-1-6-1-07



XP SERIES POWER INVERTER SPECIFICATIONS

OUTPUT POWER

| CONTINUOUS POWER | SURGE POWER | NO LOAD POWER | OUTPUT VOLTAGE | OUTPUT CURRENT | WEIGHT LBS. |
|------------------|-------------|---------------|----------------|----------------|-------------|
| 125W | 150W | 5W | 100 +/-6% | 1.2 | 2 |
| 125W | 150W | 5W | 117 +/-6% | 1.1 | 2 |
| 250W** | 300W | 6W | 100 +/-6% | 2.5 | 5 |
| 250W** | 300W | 6W | 117 +/-6% | 2.1 | 5 |
| 250W** | 300W | 7W | 230 +/-6% | 1.1 | 5 |
| 600W** | 1100W | 8W | 100 +/-6% | 6.0 | 6.5 |
| 600W** | 1100W | 8W | 117 +/-6% | 5.1 | 6.5 |
| 600W** | 1100W | 9W | 230 +/-6% | 2.7 | 6.5 |
| 1100W** | 2200W | 20W* | 100 +/-6% | 11.0 | 10 |
| 1100W** | 2200W | 20W* | 117 +/-6% | 9.5 | 10 |
| 1100W** | 2200W | 20W* | 230 +/-6% | 4.8 | 10 |
| 2000W | 4000W | 12W | 120 +/-2% | 16.7 | 15 |

*10W with X2 option, **remote switchable

INPUT POWER

| MODEL VOLTAGE | MINIMUM ¹ (TYPICAL) | SYSTEM (TYPICAL) | MAXIMUM ¹ (TYPICAL) | TYPICAL EFFICIENCY @ FULL POWER | PEAK EFFICIENCY @ 1/3 POWER |
|---------------|--------------------------------|------------------|--------------------------------|---------------------------------|-----------------------------|
| **12V | 10.4/10.6* | 13.8V | 16.5V | 85% | 87% |
| 24V | 19/21V* | 27.6V | 33V | 87% | 89% |
| 32V | 26.5/28V* | 36.8V | 44V | 88% | 90% |
| 48V | 41.5/42.5V | 55.2V | 62V | 87% | 89% |
| 66V | 57.5/58.5V* | 75.9V | 91V | 88% | 90% |
| 108V | 94/95V* | 125V | 149V | 87% | 90% |

*Indicates typical cut-off voltage/warning buzzer voltage

¹ +/- 3% ** Output Power derated for XPX

GENERAL

| CONDITIONS | MINIMUM | TYPICAL | MAXIMUM |
|-----------------|---------|------------|---------|
| WAVEFORM | - | SINUSOIDAL | - |
| VOLTAGE OUTPUT | -5% | NOMINAL | +5% |
| LINE REGULATION | - | 0.1% | 0.5% |
| LOAD REGULATION | - | 0.5% | 1% |
| DISTORTION | - | 1.5% | 2% |
| FREQUENCY | -0.1% | NOMINAL | +0.1% |

See www.exeltech.com for more data regarding XP Series inverters.

MECHANICAL

| Case size (HxWxD) |
|--|
| 125W case size= 2.16" X 4.93" X 7.90" (2 lbs) |
| 250W case size= 2.77" X 5.23" X 12.03" (5 lbs) |
| 600W case size= 3.57" X 7.69" X 12.10" (6.5 lbs) |
| 1100W case size= 3.57" X 7.69" X 15.05" (10 lbs) |
| 2000W case size= 4" X 9" X 18" (15 lbs) |

OPTIONS

| XP Options: |
|---|
| - conformal coating (07 option) |
| - low idle current drain (02 option)* |
| - circuit board with heat sink only (04 option) many other options available for OEM applications, consult factory. |

*1100 watt only

PROTECTION CIRCUITRY

| | |
|-----------------|---|
| *Over Voltage: | Shut off at maximum input voltage, per input conditions. Automatic reset upon fault correction. |
| *Under Voltage: | Shut off at minimum input voltage, per input conditions |
| *Thermal: | 105 C internal temperature. Warning buzz 5 C before shut off |
| Output Short: | Unit shuts off (manual reset) |

*Automatically reset

ENVIRONMENTAL

| | |
|----------------|--|
| Temperature: | -25 to 30 C full power derated 20% per 10 C, above 30 C. |
| Humidity: | 5 to 95% non condensing |
| Altitude: | -200 to 10k feet full power, derated above 10k |
| Audible Noise: | Less than 45dba |
| Cooling: | 600W/1100W Thermo-statically controlled forced air. 125W/250W convection cooled. |
| Finish: | Painted aluminum |
| Warranty: | Full year parts labor |