

Inverters

Ranges from 24 VDC to 800 VDC

Outputs: Three Phase or Single Phase
50, 60, 100, 200, 400Hz



Myers EPS/Abacus inverters are custom built and are available with output frequencies of 50, 60, 100, 200, and 400Hertz, digitally synthesized and crystal controlled for $\pm 0.05\%$ accuracy. Custom frequencies are also available.

Models are available from 500VA, single-phase output and up to 200kVA, 3 phase output. Input voltages range from 24VDC to 600VDC with positive, negative or floating reference. Outputs are floating; transformer isolated from the input source and may be bonded or referenced to earth ground.

Please call or email us (see below for contact information) for a formal quotation and available configuration options.

ELECTRICAL SPECIFICATIONS FOR DC TO AC INVERTERS

- **Input Voltage:** 24VDC, 28VDC, 48VDC, 120VDC, 200VDC, and up to 800VDC for custom applications. Not all DC input voltages available at all power levels. Consult factory.
- **Input Voltage Range:** -15%, +20% typical.
- **Output Voltage:** Standard Voltage & Frequency

	1Ø	3Ø
50	220	380
60	120	208
400	115	200

Variable and fixed voltage frequencies available.

- **Voltage Regulation:** 2% or less for combined no load to full load changes and rated input voltage changes. Voltage regulation also applies for three phase inverters regardless of load imbalances
- **Frequency Stability:** Oscillator included in the unit base price. Frequency oscillators are crystal controlled with a stability of $\pm 0.05\%$.
- **Waveshape:** Sinewave less than 3% THD, 1% max. any single frequency. Less than 4% for non-linear loads such as computer power supplies.
- **Load Power Factor:** 0.7 lead to lag. Continuous zero lead to zero lag at full rated output damage.
- **Duty Cycle:** Continuous duty at 100% full rated output VA.

- **Peak Output Current:** 110% of individual phase rms full of load current rating
- **Output Configuration:** Isolated from ground, 2 wire single phase or 4 wire 3 phase wye. Can be ordered with earth bonding and other configurations.
- **Isolation:** Input to output is transformer isolated.
- **Protective Circuits:** All models are equipped with automatic overload protection. Automatic reset upon removal. Circuit breaker or fuse on the input and fuse on the output. Automatic shutdown for input overvoltage, undervoltage.
- **Meters:** Output volt and ammeters are standard on all models. Output frequency meter is standard on variable output frequency units. Other configurations available.
- **Ambient Temperature Range:** Operating 0° to +40°C. Non-operating -20° to +85°C.
- **Ambient Humidity Range:** Less than or equal to 95% to 25°C, less than or equal to 75% to 40°C and less than or equal to 45% to 50°C
- **Input and Output Termination:** Rear mounted barrier strips provided. Rear mounted MS connectors and mates provided for all 400Hz output units (3500VA or less). MS connectors optional on all units.
- **Construction:** Units less than 6kVA are standard 19" rack mount. Larger units are cabinet models.