

Frequency Converters

Ranges from 24 VDC to 800 VDC

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



Myers EPS/Abacus Converters are custom built and are available with output frequencies of 50, 60, 100, 200, and 400 Hertz, digitally synthesized and crystal controlled for $\pm 0.05\%$ accuracy. Variable output frequency units are available with the ranges of 45 to 65 Hertz or 350 to 450 Hertz. Custom frequencies are also available.

Models are available from 500VA, single-phase output and up to 200kVA, 3 phase output. 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:** 115VAC $\pm 10\%$ single phase for units 1600VA and below. 208V three phase for units above 1600VA. Other inputs available.. Consult factory.
- **Input Frequency:** 47 to 420Hz input is available.
- **Output Voltage:** Standard Voltage & Frequency

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

Variable and fixed voltage frequencies available.

- **Voltage Regulation:** Less than $\pm 2\%$ 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. Fixed Frequency oscillators are crystal controlled with a stability of $\pm 0.05\%$. Adjustable oscillators are RC controlled and have a stability of $\pm 0.025\%$.
- **Output Power:** Units are rated from 500VA 1Ø to 200kVA 3Ø. Consult factory for specific levels available. Maximum power per phase is 1/3 of the three-phase output.
- **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
- **Output 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.
- **Peak Output Current:** 110% of individual phase rms full of load current rating
- **Duty Cycle:** Continuous duty at 100% full rated output VA. 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.
- **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 7.5kVA are standard 19" rack mount. Larger units are cabinet models.