

TFC10000C-4690 AC Source Specifications

The Behlman TFC10000 is a transportable, rugged, precision, three phase 400Hz to three phase 60 Hz frequency converter housed in a stainless steel enclosure suited for outdoor use. The input has a soft start circuit and multi pulse rectification for low input current THD. The output is isolated, neutral may be grounded, and can supply 100% of rated power into any power factor load, zero to unity. The unit has a number of protective circuits including input, short circuit, constant current, and thermal protection. Input and output connections are impervious to weather conditions.

INPUT: 120/208 VAC, 3 phase 360 – 440 Hz.
Multi Pulse Input Transformer for Low Input Current THD.

OUTPUT:
Voltage/Current: 120/208 VAC, 3 phase @ 28 Amps/phase.
Frequency: 60 Hz.
Distortion: 1.5% Typical THD @ 60Hz.
Load Regulation: $\pm 0.7\%$ No Load to Full Load
Line Regulation: $\pm 0.1\%$ for $\pm 10\%$ Line Charge
Efficiency: 85% to 90% at full load.
Power Factor: 100% of rated output into any power factor load.
Current Crest Factor: 3:1



PROTECTIVE CIRCUITS:
Input Protection: Main circuit breaker.
Constant Current Mode: Overload automatically causes voltage fold back to provide maximum current without distorting output waveform.
Short Circuit Protection: Short Circuit electronically latches output open to protect load. Power restored by recycling circuit breaker.
Thermal Protection: Internal temperature sensor prevents heat damage.

MECHANICAL SPECIFICATIONS:

Enclosure to be high strength 316L stainless steel suited for outdoor use.
Includes mounting angles to allow attaching to a skid.
Dimensions: 22"W X 22"D X 17"H, including heat sink and mounting flanges.
Weight: 275 lbs.
Finish: CARC paint, color Green, #383 IAW MIL-STD-193L.
Input Connections: Hubbel No. M5100BR9.
Output Connections: Hubbel No. M5100R9.

ENVIRONMENTAL:

Operating Temperature: -32 to 52 degrees C
Non-operating temp: -40 to 60 degrees C.
Designed to meet:
MIL-STD-461E: RE102, CE102, RS103
MIL-STD-810F: Salt Fog, Humidity, Vibration

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