



Avionic Instruments LLC
Aerospace Power Electronics



AVENEL, NJ BASED AVIONICS EQUIPMENT MANUFACTURER, **AVIONIC INSTRUMENTS LLC**, HAS OBTAINED A SUPPLEMENTAL TYPE CERTIFICATE (STC) FOR THE G650 60Hz FREQUENCY CONVERTERS. AVIONIC INSTRUMENTS' 60Hz FREQUENCY CONVERTER HAS PROVEN LONGEVITY ON-WING INSTALLED ON MULTIPLE PLATFORMS, HAS SIGNIFICANTLY HIGHER RELIABILITY THAN THE CURRENT INCUMBENT AT OVER 12,500 HOURS MTBF, AND IS SIGNIFICANTLY QUIETER THAN THE INCUMBENT'S FREQUENCY CONVERTER.

THE STC ALLOWS FOR DIRECT INTERCHANGEABLE REPLACEMENT OF THE EXISTING FREQUENCY CONVERTERS WITH AVIONIC INSTRUMENTS UNITS.

FOR PURCHASE INQUIRES CONTACT AVIONIC INSTRUMENT'S EXCLUSIVE DISTRIBUTOR CORPORATE JET SUPPORT:

+1 201 807 0784

CORPJETSUPPORT.COM



FOR PRODUCT QUESTIONS CONTACT THE MANUFACTURER DIRECTLY:

+ 1 732 388 3500

AVIONICINSTRUMENTS.COM



FAA STC ST04649NY
EASA STC 10076981

DIRECT REPLACEMENT AVAILABLE

Current G650 Installed
Frequency Converter

60Hz Frequency
Converter PN:
717220-1



- Top 10 Removal Item on G650
- Reliability: **~1,300 MTBF**
- Estimated Removals per Year ~200
- **86 dB**, heard in the cabin



Avionic Instruments LLC
Aerospace Power Electronics

60Hz Frequency
Converter PN:
1-002-0102-2444



- Proven Technology - Over 2,000,000 Hours Flown
- Higher Reliability **12,500 MTBF**
- **60 dB**, not heard in the cabin

Avionic Instruments PN: 1-002-0102-2444 Technical Specifications

ELECTRICAL SPECS	
INPUT VOLTAGE	115/200VAC. Three Phase WYE, Nominal. 108 to 118 VAC L-N, normal. Power interruptions as per MIL-STD-704E
INPUT FREQUENCY	320-700Hz
INPUT CURRENT	12.5A, typical. 15A per phase, maximum, for rated load and nominal input. Input current total harmonics distortion less than 5%
INPUT POWER FACTOR	12.5A, typical. 15A per phase, maximum, for rated load and nominal input. Input current total harmonics distortion less than 5%
OUTPUT VOLTAGE	115VAC +/- 3VAC, single phase, for normal input range, no load to full load over the full temperature range. Transients per MIL-STD-704E
OUTPUT FREQUENCY	60 +/- 0.6 Hz
OUTPUT POWER	3500VA, Nominal
OUTPUT VWAVE SHAPE	1.5% THD, typical. 5.0% maximum, normal operation
OUTPUT POWER FACTOR	0.75 Lag to 0.8 Lead. Not damaged by any power factor
EFFICIENCY	87%, Typical. 85% minimum at full load
OVERLOAD	3850VA for 2 hours, 5250VA for 5 minutes. 200% short circuit current
PROTECTIONS	Output overvoltage. Output over/under frequency. Overtemperature. Short circuit. Input over/undervoltage

ENVIRONMENTAL SPECS	
OPERATING TEMP RANGE	-55° to +71° C ambient, operating
STORAGE TEMP RANGE	-65° to +85° C ambient, operating
ENVIRONMENTAL	RTCA/DO-160G, MIL-STD-810F

MECHANICAL SPECS	
DIMENSIONS	18.0"L x 7.0"W x 5" high. 27.0lbs., maximum
WEIGHT	27.0 lbs., maximum
FEATURES	Remote On/Off. Fault Annunciation

FAA TSO C-73 Approved
FAA PMA Approved STC



Avionic Instruments LLC
Aerospace Power Electronics

Hear the Difference

Click Videos Below

Current Install



AI2 STC Install



“Listen to that, it’s so darn quiet.”