

Hobart 2200**7.5, 15 and 30kVA Solid State Frequency Converters**

15kVA in Portable Configuration



30kVA in Stationary Configuration

DESCRIPTION

The Hobart 2200 converters are the latest addition to the Hobart line of 400 Hz frequency conversion products. This small, user friendly design is ideal for the hangar or Fixed Base Operators who handle the new generation of 400 Hz business aircraft such as the Gulfstream IV / V and Canadair Challenger. In its portable configuration the 2200 is easily maneuverable around the hangar and has plenty of cable storage area. The stationary version's small footprint makes it ideal for crowded hangars.

ENVIRONMENTALLY FRIENDLY

Due to the solid state technology, the Hobart 2200 converter has an extremely low noise level, less than 65 DBA at a distance of one meter. This is especially important in the hangar environment. Also, Hobart 2200 converters do not cause any environmental pollution because they are purely electrically driven.

EXCELLENT TOTAL ECONOMY

Low maintenance requirements are important for your total economy. There are no moving parts which would be subject to wear and tear.

The Hobart 2200 GPU operates on only 50 W in stand-by and has an efficiency of 93% at full load. This results in considerable savings on your energy budget. And, of course, the 2200 can be started and stopped as required, thus saving even the idling consumption. Immediate operation is gained by merely pressing the start button.

EASY MAINTENANCE

The Hobart 2200 is very simple to maintain and to repair due to the modular design. Even if a fault should arise, the GPU is soon back on the job. The display not only indicates the nature of the fault – it also suggests corrective action. This eliminates guesswork and saves valuable time to searching for the fault.

To assure easy daily operation of the converter, the operation panel is equipped with a minimum of push buttons and lamp indications. It also features a user-friendly alphanumeric display.

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Specifications

Inputs

Model	Amperage	Hertz	Voltage
7.5kVA	9 @ 460 VAC	50-60 ±5%	460±15%
15kVA	17 @ 460 VAC	50-60 ±5%	460±15%
30kVA	34 @ 460 VAC	50-60 ±5%	460±15%

- Rectification: 12 Pulse
- Inrush Current: None, soft start
- Power Factor: 0.7 lagging to 0.95 leading
- Optional 208/230/460/600V Transformer

Output

- Ratings: 7.5kVA (6kW continuous)
15kVA (12kW continuous)
30kVA (24kW continuous)
- 115/200 VAC, 3Ph, 400Hz
- Overloads: 120% – 10 minutes
150% – 30 seconds
170% – 5 seconds
200% – 1 second
- Short Circuit Protected
- NBPT: Specifically designed to service present and future aircraft no-break power requirements

Environmental

- Acoustical Noise: <65dBA @ 1.5M high, 1M distance
- Operating Temperature: -40°C to +50°C (-40°F to +120°F)
- Relative Humidity: 10 - 95% (10 - 100% optional)
- Enclosure: IP55

Voltage

- Voltage: 3 x 115/200 V
- Voltage Regulation: >0.5% for balanced load <3% for 30% unbalanced load
- Voltage recovery: <8% and rec. time <10 ms at 100% load change
- THD (total harmonic distortion): <2%
- Voltage Modulation: >1%
- Phase Angle Symmetry: 120° ±1° for balanced load, 120° ±2° for 30% unbalanced load
- Transient Performance: Mil-Std-704E
- Crest Factor: 1.414 ±3°

Norms and Standards

- DFS 400 Specification for 400 Hz aircraft power supply
- ISO 6858 Aircraft ground support electrical supplies – General requirements
- BS 2G 219 General requirements for ground support electrical supplies for aircraft
- MIL-STD-704E Aircraft Electric power
- EN50091-1 General and safety requirements
- SAE ARP 5015 Ground equipment – 400 Hz ground power performance requirement
- EN2282 Aerospace series characteristics

Efficiency

- Overall Efficiency: >0.93 at 30-100% load at cos phi = 0.8
- Stand by losses: <50W
- No load losses: <1kW

Miscellaneous

- MTBF (proven): 100.000 hours
- MTTR: Max. 20 minutes
- Protections:
 - Over and undervoltage at input
 - Overload
 - Internal high temperature
 - Internal voltage error
 - Short Circuit at output
 - Generative Loads

Weight

	Stationary	Portable
7.5kVA	574 lbs. (260 kg)	728 lbs. (330 kg)
15kVA	574 lbs. (260 kg)	728 lbs. (330 kg)
30kVA	926 lbs. (420 kg)	1124 lbs. (510 kg)

Dimensions

	Stationary	Portable
7.5kVA	39 x 25 x 25"	50 x 38 x 67"
15kVA	39 x 25 x 25"	50 x 38 x 67"
30kVA	45 x 26 x 43"	56 x 54 x 81"

Specifications subject to change without notice.

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