

The world's most powerful GPU

AXA 2200 Compact

7.5 and 15 kVA Solid-state GPU



AXA Power is the world's leading supplier of 400 Hz solid-state Ground Power Units with more than 8.000 units in operation at leading airports world-wide.

AXA Ground Power Units have proven their strengths through deliveries to leading airports around the world. With the AXA 2200 series, completely new standards for operation, economy and design of GPUs have been created. The AXA 2200 has been developed to live up to actual as well as to future demands with regard to efficiency, safety and flexibility towards all kinds of aircraft.

The AXA 2200 series provides:

- High Reliability
- Simple and Safe Operation
- High Output Voltage Quality
- Fast and Easy Service / Maintenance
- Long Lifetime



AXA POWER is part of ITW GSE
- the world's leading supplier of Ground Support Equipment:



It's all about connections



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Specifications

AXA 2200 Compact – 7.5 and 15 kVA solid-state GPU

Input

- Voltage range: 3 x 400 V $\pm 15\%$
- Frequency: 50/60 Hz ± 5 Hz
- Rectification: 12 pulse
- Rated current: 9 A (7.5 kVA) $\pm 15\%$
19 A (15 kVA) $\pm 15\%$
- Line current distortion: $< 7\%$
- Power factor: > 0.96 at 100% load
- Inrush current: None, soft start

Output

- Power: 7.5 or 15 kVA, PF 0.8
- Voltage: 3 x 115/200 V
- Frequency: 400 Hz $\pm 0.001\%$
- Power factor:
0.7 lagging to 0.95 leading
- Voltage regulation:
 $< 0.5\%$ for balanced load and
up to 30% unbalanced load
- Voltage recovery: $\Delta U < 8\%$ and rec.
time < 10 ms at 100% load change
- Total harm. content:
 $< 2\%$ at linear load (typ. 1.5%)
 $< 2\%$ at non linear load according
to ISO 1540
- Crest factor: $1.414 \pm 3\%$
- Voltage modulation: $< 1.0\%$
- Phase angle symmetry:
 $120^\circ \pm 1^\circ$ for balanced load
 $120^\circ \pm 2^\circ$ for 30% unbal. load

Protection

- Protection class: IP55
- No break power transfer
- Over/under voltage at in/output
- Overload
- Internal high temperature
- Internal voltage error
- Short circuit at output
- Generative loads

Weight

Fixed units: 200 kg
Mobile units: 275 kg

Dimensions

Kindly refer to drawings or to further
information at www.itwgse.com

Efficiency

- Overall efficiency:
 > 0.93 at 15 kVA load
 > 0.90 at 7.5 kVA load
- Stand by losses: < 50 W
- No load losses: < 1000 kW

Environmental

- Operating temperature:
 -40°C to $+52^\circ\text{C}$ (125°F)
- Relative humidity 10-100%
- Noise level < 65 dB(A)@1m
- typically 60 dB(A)

Overload Ratings

- 120% for 600 seconds
- 150% for 30 seconds
- 170% for 5 seconds
- 200% for 1 seconds

Miscellaneous

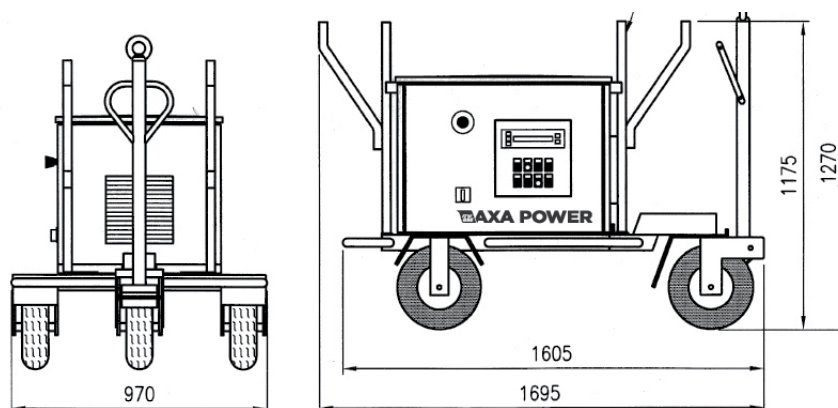
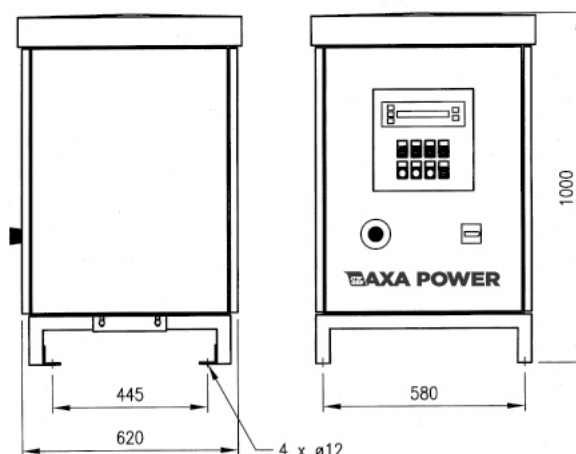
- MTBF (proven): 100.000 hours
- MTTR: max. 20 minutes

Available Standard Options

- 28 VDC, 600 A output (TRU)
- Lockable door
- External Emergency Stop
- Additional Output Contactor
- Anti Condensation Heater
- Military Interlock System

Norms and Standards

- DFS400 Specification for 400 Hz aircraft power
- ISO 6858 Aircraft ground support electric supplies
- BS 2G 219 General requirements for ground support equipment
- MIL-STD-704 Aircraft electric power characteristics
- SAE ARP 5015 Ground equipment 400 Hz ground power performance requirement
- EN62040-1-1 General & safety requirement
- EN61558-2-6 General & safety requirement
- EN61000-6-4 Electromagnetic compatibility Generic emission standard
- EN61000-6-2 Generic immunity standard



Specifications subject to change without prior notice

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