The world's most powerful GPU

AXA 2200 28 VDC Ground Power Unit

Input: 400 V, 50 Hz

GO GREEN on ground

AXA Power is the world's leading supplier of 400 Hz and 28 VDC solid-state Ground Power Units with more than 8.000 units in operation at leading airports world-wide.

All AXA 28 VDC GPUs are based on the solid-state technology - thus assuring first class performance even under the most extreme conditions. Wear and tear is limited to a minimum because there are no rotating parts.

The AXA 28 VDC GPU assists in reducing the amount of exhaust fumes and noise level within the airport area. And the AXA 28 VDC unit secures a fast, reliable and safe start of the aircraft engines. It takes over the power supply when the aircraft is on ground thus saving expensive onboard batteries and fuel consumption.

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

ITW GSE AXA POWER

It's all about connections

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Specifications

AXA 2200 28 VDC Ground Power Unit

March 2013

Input
- Voltage range: 3 x 400 V ±15%
- Frequency: 50/60 Hz ±5%
- Rectification: 6 pulse
- Line current: 28 A
- Power factor: >0.9
- Inrush current: None, soft start

Output
- Current: 600 A continuously (can be limited to 300 A upon request
- Voltage: 28 VDC (or as adjusted)
- Ripple: less than 1% at full load
- Voltage regulation: <0.5% from 0 to nominal voltage
- Output voltage: 19-33 V
- Voltage compensation: 0-3 V
- Crest factor: 1.414 ±3%

Protection
- Protection class: IP55
- Over/under voltage at in/output
- Phase sequence at input
- Over temperature
- Internal voltage error
- Short circuit at output
- Over and under voltage at output
- Trip in case that:
  U<20 VDC for more than 4 seconds
  U>32 VDC for more than 4 seconds
  U<40 VDC for more than 1 second

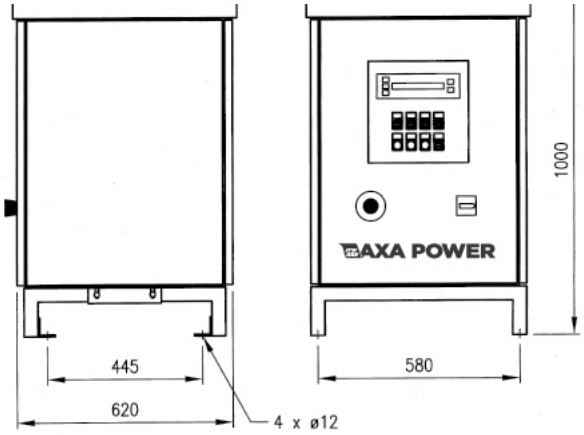
Weight
- Fixed unit approx. 200 kg
- Mobile unit approx. 275 kg

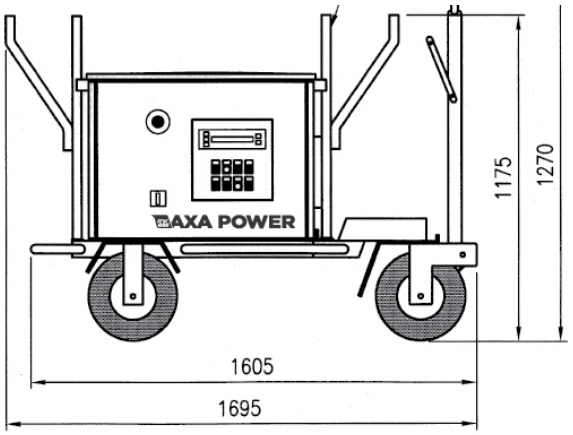
Efficiency
- Overall efficiency: >0.90
- Stand by losses: <50W
- No load losses: <2 kW

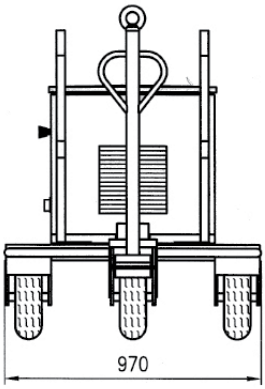
Environmental
- Operating temperature: -40°C to +52°C (125°F)
- Relative humidity 10-95%
- Noise level <65 dB(A)@1m - typically 60 dB(A)

Overload ratings - 600 A
- 1200 A for 30 seconds
- 1800 A for 10 seconds
- 2100 A for 5 seconds
- 2400 A for 2 seconds

Miscellaneous
- MTBF (proven): 100.000 hours
- Ventilation system: min. 25.000 hours
- MTTR: max. 20 minutes







Norms and Standards

ISO 6858	Aircraft ground support electrical supplies-
ISO 1540	Characteristics of aircraft electrical system
MIL-704E	Aircraft electric power characteristics.
EN 62040-1-1	General and safety requirements
EN 61000-6-4	Electromagnetic compatibility, Generic emission standard (EN 50081-2)
EN 61000-6-2	Electromagnetic compatibility Generic immunity standard (EN 50082-2)
IEC 60721	Classification of environmental conditions
IEC 60529	Classification of degrees of protection provided

Specifications subject to change without prior notice

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