



AXA POWER®

AXA 2200 – 120-180 kVA Solid-state GPU

AXA Power is the world's leading supplier of 400 Hz solid-state Ground Power Units with more than 6.000 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



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THE SAFE CHOICE

Specifications

AXA 2200 - 120-180 kVA Solid-state GPU

Input

- Voltage range: 3 x 400 V \pm 15%
- Frequency: 50/60 Hz \pm 5%
- Rectification: 12 pulse
- Rated current: 152 A (120) \pm 15%
190 A (150) \pm 15%, 228 A (180) \pm 15%
- Line current distortion: <13% (120 kVA)
< 10% (150-180 kVA)
- Power factor: >0.96 at 100% load
- Inrush current: None, soft start

Output

- Power: 120-150-180 kVA, PF 0.8
- Voltage: 3 x 115/200 V
- Frequency: 400 Hz \pm 0.1%
- 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 acc. to ISO 1540
- Crest factor: 1.414 \pm 3%
- Voltage modulation: <1.0%
- Phase angle symmetry:
120° \pm 1° for balanced load
120° \pm 2° 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

- 820kg- fixed and bridge-mounted
- 950kg - mobile version

Efficiency

- Overall efficiency:
>0.93 at 100% load
>0.92 at 50 % load, PF: 0.8 (180)
- Stand by losses: <100W

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

- 125% for 600 seconds
- 150% for 30 seconds
- 200% for 10 seconds

Miscellaneous

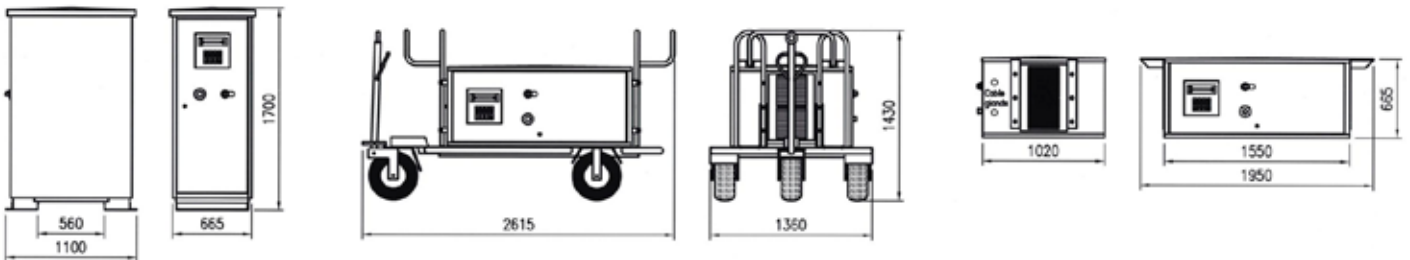
- MTBF (proven): 100.000 hours
- MTTR: max. 20 minutes

Available standard options

- Portable service lamp
- External voltage feedback
- External emergency stop
- Lockable doors
- Remote control box
- Anti-condensation heater
- Serial communication
- Cover for instrumentation
- Military interlock system
- Individual overload protection
of two outlets
- Terminal extension for 2 pcs of
7 core cables
- Additional output contactor
- Indication lamp for 400 Hz ready
- Potential free outlets
- Single outlet 120-180 kVA
- Neutral conductor rupture supervision
- 90% switch interlock
- GPU enable
- Door interlock
- Earth leakage relay (RCM)
- Indication lamp for interlock present

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



AXA Power ApS
Smedebakken 31 - 33
DK - 5270 Odense N
Denmark

tel: +45 63 18 60 00
fax: +45 66 18 70 92
e-mail: sales@axapower.com
web: www.axapower.com

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