



AXA COMPACT POWER

AXA 2300 Compact – 30 and 45 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.

The AXA 2300 Compact is the safe choice for new 400 Hz installations as it is designed to suit the increasing demands of future aircraft. The design is based on input from major aircraft manufacturers and customers combined with our long experience.

The AXA 2300 incorporates many outstanding features including a simple user interface which make operator training easier than ever before.



AXA POWER®

THE SAFE CHOICE

Specifications

AXA 2300 Compact - 30 - 45 kVA Solid-state GPU

Input

- Voltage range: 3 x 400 V ±15%
- Frequency: 50/60 Hz ±5%
- Rectification: 12 pulse
- Rated current: 38 A (30 kVA) ± 15%;
58 A (45 kVA) ± 15%
- Line current distortion: <13% (30 kVA)
<10% (45 kVA)
- Power factor: >0.97 at 100% load
- Inrush current: None, soft start

Output

- Power: 30 or 45 kVA, PF 0.8-1
- Voltage: 3 x 115/200 V
- Frequency: 400 Hz ± 0.01%
- 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 ± 3%
- Voltage modulation: <1.0%
- Phase angle symmetry:
120° ± 1° for balanced load
120° ± 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
- Neutral voltage supervision

Weight

Fixed & bridge-mounted units: 330 kg
Mobile units 500 kg

Dimensions

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

Efficiency

- Overall efficiency:
>0.93 at 20-45 kVA load
- Stand by losses: <50W
- No load losses: <2000 W

Environmental

- Operating temperature:
-40°C to +52°C (125°F)
(+56°C at aircraft load)
- Relative humidity 10-100%
- Noise level <65 dB(A)@1m -
typically 60 dB(A)

Overload ratings

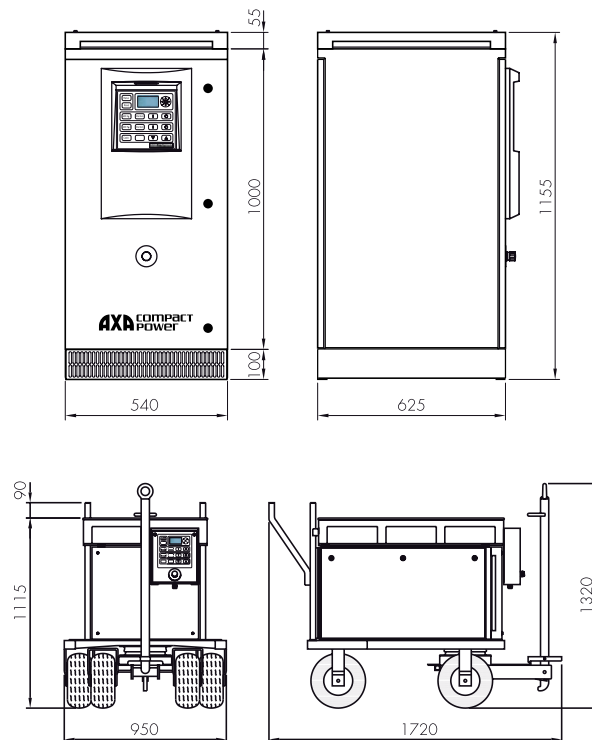
- 125% for 600 seconds
- 150% for 60 seconds
- 200% for 30 seconds
- 250% for 10 seconds
- 300% for 1 second

Miscellaneous

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

Available standard options

- 200/230 V input adaption)
- 28 VDC, 600 A output (TRU)
- Additional base module
- Additional output contactor
- Terminal extension for
2 pcs. of 7 core cable
- Remote control box
- Cover for instrumentation
- Lockable door
- GPU enable
- Neutral conductor
rupture supervision
- 90% switch interlock
- TCP/IP interface
- AXA service tool



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

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