Hobart 1400 GPU for hangar use

28 VDC Ground Power Unit

Input Power: 208 - 480 VAC, 50/60 Hz
Rating: 400 A or 600 A

Durable Design

The Hobart 1400 is a small, light weight, easily maneuvered solid-state GPU that requires a minimum of space.

The solid-state technology means that wear and tear is limited to a minimum since there are almost no moving parts. The result is a very reliable and dependable unit that is built to last for a long time. In case of service or repair, the enclosure can be completely removed within minutes, thus providing full access to all parts.

ITW GSE Operator Interface

The icon based operator interface is common for all current ITW GSE products. It is easy and intuitive and guarantees you correct operation.

The daily operator only has to press the combined start/stop button - nothing more. But he can monitor various parameters such as voltage and current at the display screen. For set-up and maintenance purposes, there are additional lockable screens dedicated for the technician.

Downloads and Updates

The software-based control system means that the Hobart 1400 GPU can easily be updated in the future simply by transferring new software from a USB stick/flash drive. Power log and Black Box files for analysis can be downloaded to a USB stick, as well.

HOBART is part of ITW GSE
– the world's leading supplier of Ground Support Equipment

ITW GSE HOBART

It's all about connections

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Specifications

Hobart 1400 28 VDC Ground Power Unit

Input

Amps @400	Amps @600	Hertz	Voltage
40 A	60 A	45-65	208 -10% +15%
20 A	30 A	35-80	400 -10% +15%
16 A	25 A	35-80	480 ±10%

- Power factor: 0.91
- Inrush current: None, soft start

Output

- Current: 600 A continuously (can be limited to 400 A upon request)
- Engine Start Capability: 28 V @ 2400A
- Voltage: 28 VDC (or as adjusted)
- Ripple: less than 2% at full load
- Voltage regulation: <0.5% from no load to full load
- Voltage compensation: 3 V @ 600 A
  Manual or voltage feed-back via interlock

Weightwithout cable

- 208V input approx. 507 lbs (230 kg)
- 480V input approx. 419 lbs (190 kg)

Efficiency

- Overall efficiency: 0.87
- Stand by losses: 130W
- No load losses: 330W

Environmental

- Operating temperature: -40°C to +56°C (133°F)
- Relative humidity 10-100% non condensing
- Noise level <65 dB(A)@1m

Overload ratings

	600 A	400 A
•	1200 A	800 A for 30 seconds
•	1800 A	1200 A for 10 seconds
•	2100 A	1400 A for 5 seconds
•	2400 A	1600 A for 2 seconds

Miscellaneous

- MTBF – 100,000 hours
- Ventilation system: min. 25.000 hours
- MTTR: max. 20 minutes
- Communication: TCP/IP, USB

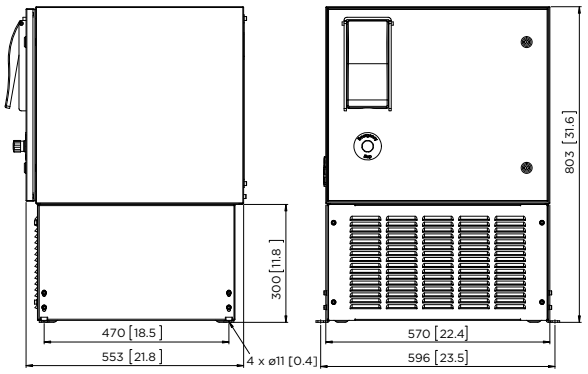
Protection

- Protection class: IP55 (electronic section)
- Over/under voltage at in/output
- Over temperature
- Internal voltage error
- Short circuit 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 150 ms

Norms and Standards

ISO 6858	Aircraft ground support electrical supplies- General requirements
BS 2G 219	General requirements for ground support equipment
MIL-STD-704F	Aircraft electric power characteristics
EN 1915 - 1 & 2	(Machinery - General safety requirements)
EN 12312-20	(Machinery - Specific safety requirements)
EN 60204-1	(Machinery - Electrical safety)
EN 62040-1-1	LVD - Safety standards
EN 61558-2-6	LVD - Safety standards
EN 61000-6-2	EMC - Immunity standard
EN 61000-6-4	EMC - Emission standards

Hangar Version

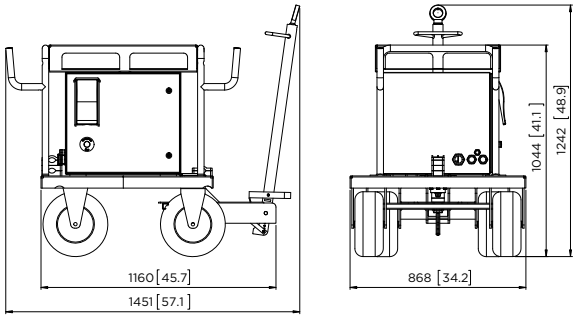


Dimensions are shown in mm and (inches)

1400 Hangar May 2017

Mobile Version

The Hobart 1400 is also available in a version suitable for use at the apron. Contact us for further information



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Specifications subject to change without prior notice

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