

# HOBART POWERMASTER®

# 2400

120-140-180 kVA solid-state GPU



**PLUG & PLAY**  
UNIQUE VOLTAGE QUALITY

*Hobart is part of ITW GSE  
- the world's leading supplier of Ground Support Equipment*

**ITW GSE HOBART**

It's all about connections

# Specifications

## Hobart PowerMaster® 2400 GPU 120 - 140 - 180 kVA solid-state GPU

### Input

Model	Amps (0.8)	Amps (1.0)	Hertz	Voltage
120SX240	150	190	45-65	400±15%*
	130	160	45-65	480±10%*
	105	130	45-65	600±15%*
140SX240	175	220	45-65	400±15%*
	150	185	45-65	480±10%*
	120	150	45-65	600±15%*
180SX240	230	285	45-65	400±15%*
	190	240	45-65	480±10%*
	150	190	45-65	600±15%*

\* Values adjusted to next 5A value

- Line current distortion:  
120 kVA: 9%, 140 kVA: 7%, 180 kVA: 5%
- Power factor: 120 - 140 kVA: 0.99  
180 kVA: 1 @ nominal load
- Inrush current: None

### Output

- Rated Power: 120-140-180 kVA, PF 0.8-1
- Voltage: 3 x 115/200 V
- Frequency: 400 Hz ± 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: ΔU <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 input & output zones
- No break power transfer
- Over/under voltage at output
- Overload
- Internal high temperature
- Control voltage error
- Short circuit at output
- GPU enable
- 90% switch interlock
- Neutral voltage supervision
- Leakage current supervision

### Weight

Fixed & PBB units: 1433 lbs. (650 kg)

### Efficiency

- Overall efficiency:  
0.93 at 180 kVA load PF 0.8-1
- Stand by losses: 150 W
- No load losses: 4.4 kW

### Environmental

- Operating Temperature at:  
-40°C to +56°C (-40°F to +132°F)  
(+60°C at aircraft load)
- Relative humidity 10-100%
- Noise level < 65 dB(A) @1m

### Overload Ratings

- 125% for 600 seconds
- 150% for 60 seconds
- 200% for 30 seconds
- 300% for 10 seconds
- 400% for 1 second

### Miscellaneous

- MTTR: max. 20 minutes
- Colour: RAL 7035 (standard)

### Dimensions

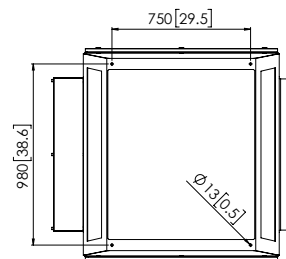
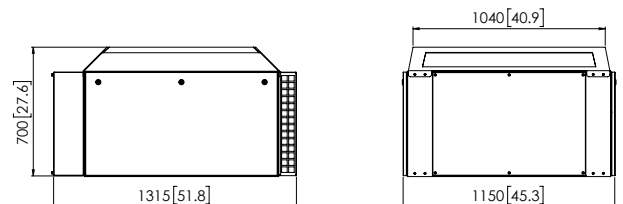
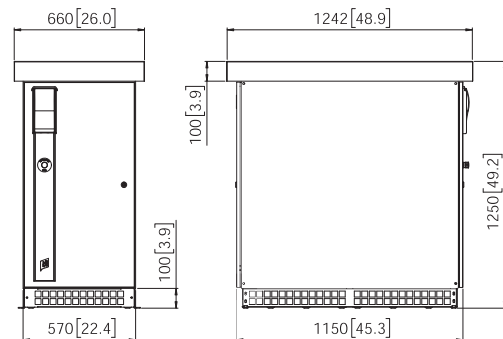
Kindly refer to drawings or to further information at [www.itwgse.com](http://www.itwgse.com)

### Available Standard Options

- Additional base module
- Single output configuration
- Terminal extension for 2 pcs. of 7 core cable
- Remote control box
- Lockable door
- Door interlock
- RS485 interface
- Military interlock
- Dry Contacts
- Hobart 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-704F Aircraft electric power characteristics
- SAE ARP 5015 Ground equipment 400 Hz ground power performance requirement
- EN2282 Aerospace series characteristics of aircraft electrical supplies
- 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
- EN1915-1&2 Machinery; general safety requirements
- EN12312-20 Machinery; specific safety requirements
- ETL Listed per UL1012



Dimensions are shown in mm and (inches).

Specifications subject to change without prior notice



It's all about connections