

EXCLUSIVELY IN CANADA BY



PATLON
AIRCRAFT & INDUSTRIES
LIMITED

Please contact Patlon:
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ITW GSE

2400

270 VDC
400 HZ GPU

Meets and exceeds the stringent requirements of the world's most advanced aircraft systems including F-35 & F-22



Voltage quality at the aircraft plug
due to the patented Plug & Play system

It's all about connections



SPECIFICATIONS

ITW GSE 2400 single output: 270 VDC only

ITW GSE 2400 dual output: 270 VDC / 400 Hz



PLUG & PLAY
UNIQUE VOLTAGE QUALITY

The brandnew ITW GSE 2400 GPU combines our many years of experience supplying the Military Aircraft Industry's premier state-of-the-art 400 Hz / 270 VDC with our world-wide support network. The unit is of modular design. It is very compact and only takes up little space. Therefore, you can easily mount it along wall spaces without compromising safety lanes. A safe choice for your military application.

Input Power

- 380-480 V, 50/60 Hz
- Rated current: 94 A +/- 5% @ 480 V, 60 Hz
- Rated current: 115 A +/- 5% @ 400 V, 50 Hz.
- 12 pulse frontend

Single Output-270 VDC only

- 270V $3V_{p-p}$ @ 267 A, 72 kW
- Transient performance exceeds MIL-STD-704F
- Recovery from 95% Step Load in 40 ms to 704F requirements and 80 ms to recover to DC regulation
- Meets Z2E00004-0007, F-35 JSF power quality requirements
- Interlock: 28 V @ 15 A

Dual Output-400 Hz/270 VDC

- **Output 1:** 270 V +/-3V @ 267 A, 72 kW (see above)
- **Output 2 (optional):** 90 kVA @ 0.8 PF lagging
- 115/200 V - WYE, ABC-N
- Frequency: 400 Hz \pm 0.1%
- Power factor: 0.5 lagging to 0.8 leading
- Voltage regulation: <1%
- Transient performance exceeds MIL-STD-704F
- Crest factor: $1.414 \pm 3\%$

Efficiency

- Overall efficiency (270 V): >0,92 at 28-72 kW, 30%-100% load >0,90 at 25 kW, <30% load
- No load loss: <2 kW

Weight

- Fixed unit: 903 lbs (410 kg)
- Mobile unit: 1,290 lbs (585 kg)

Protection

- Over/under voltage, input and output
- Overload
- Short circuit
- High temperature
- Internal system error
- Protection class: IP55
- Broken Neutral Supervision
- Leakage Current Supervision

Environmental

- Operating temperature: -40°F to +131°F (-40°C to +55°C)
- Relative humidity 0-95%
- Airborne Noise <65 dB(A) @ 1m - typically 60 dB(A)

Miscellaneous

- MTBF: 100,000 hours
- MTRR: max. 20 minutes

Standards/Specifications

- UFGS-26 35 43 Unified Guide Specification
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- MIL-STD-704F
- NFPA 70 Article 500
- UL 1012
- F-35 Electrical Interface: Z2EU00004, REV-0007

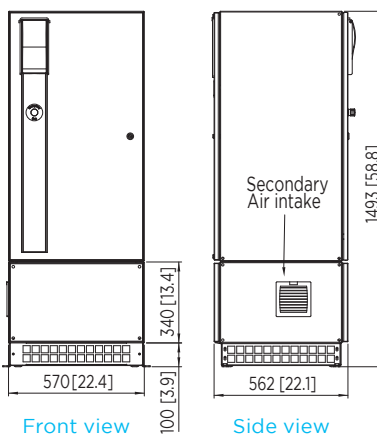
Options

- Interlock: 37.5 A

The 270 VDC / 400 Hz Dual Converter is compatible with these aircraft and others

- | | |
|----------------|-----------------|
| • F-15 Eagle | • F-35 JSF |
| • F-16 Falcon | • Mirage |
| • F-18 Hornet | • N-UCAS; UAV's |
| • F-22A Raptor | • Sukhoi-30 |

Fixed Version - single or dual output



Mobile Version - single or dual output

