

PRELIMINARY VERSION

ITW GSE

# 7400

270 VDC  
400 HZ eGPU

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



It's all about connections



# SPECIFICATIONS

ITW GSE 7400 single output: 270 VDC only

ITW GSE 7400 dual output: 270 VDC / 400 Hz



Zero Emission

## Input Power

- Charger input range:  
3 phased@260-520V/45-65 Hz

## Single Output-270 VDC only

- 270V 3V<sub>P-D</sub> @ 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 2ZE00004-0007, F-35 JSF power quality requirements

## 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 ± 0.1%
- Power factor: 0.5 lagging to 0.8 leading
- Voltage regulation: <1%
- Transient performance exceeds MIL-STD-704F
- Crest factor: 1.414 ± 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

- Mobile unit w. two battery packs: 4,299 lbs (1950 kg)

## Protection

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

## Environmental

- Operating temperature: 14°F to +133°F (-10°C to +45°C)
- Relative humidity 0-95%
- Airborne Noise <65 dB(A) @ 1m - typically 60 dB(A)

## Miscellaneous

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

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

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

## Standards/Specifications

- ISO 6858:2017(E) Aircraft ground support electric supplies
- UFGS-26 35 43
- Unified Guide Specification
- UFGS-26 35 44
- Unified Guide Specification
- MIL-STD-704F
- NFPA 70 Article 500
- UL 1012
- F-35 Electrical Interface: 2ZEU00004, REV-0007

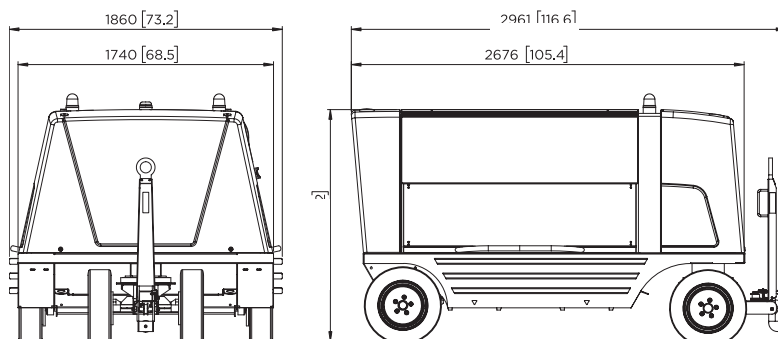
## Standard Features/Equipment:

- Plug & Play automatic voltage compensation (90 kVA output only)
  - Adjustable max. input current settings (e.g. 16 to 125 A in steps of 1 A)
  - Beacon for operation/charging\*
  - Beacon for warning/low battery\* incl. siren
  - Towbar interlock (non-lock version)
  - Simultaneous charging while supplying 400 Hz power
- \*Color acc. to customer specification

## Standard Options Available

- Input cable and plug according to clients specifications
- Lockable towbar interlock
- Towbar with DIN40 towing eye
- White clearance light
- ITW Connect incl. APP & Data Manager (data/location via GSM/GPS)
- Forklift pocket for transportation

## Mobile Version



Dimensions are shown in mm and [inches].



Specifications are subject to change without prior notice

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