管理番号：　営開　24-0009
2024 年 4 月吉日

お客様各位

多摩川エアロシステムズ株式会社
営業開発部　部長　河合　正太

ITW GSE 社製 航空機用発動発電機（JetEx5 型）サポート終了について（お知らせ）

拝啓
平素は格別のお引き立てを頂きまして、厚く御礼を申し上げます。
長きにわたり ITW GSE 社製航空機用発動発電機を御愛顧頂きまして誠にありがとうございます。

この度、製造元である ITW GSE 社より当該発電機のサポート終了に関する通知を受けましたので、下記の通りご案内を差し上げます。

記

＜サポート終了の GPU について＞
フルサポート終了日：2023 年 4 月以降順次
対象 GPU：JetEx5 型

※詳細につきましては、別添の ITW GSE 社レターをご参照下さい。

保存されております技術資料と、入手可能な部品により今後も可能な限りのサポートをしていく所存でございます。

今後とも変わらぬ御愛顧を賜りますよう、何卒宜しく御願い申しあげます。

敬具

＜お問い合わせ先＞
営業開発部　営業企画グループ　TEL：03-5708-7288
河合(kawai@tamagawa-as.jp)、町田(machida@tamagawa-as.jp)

BEG23-0209

It's all about connections

Date: April 18, 2023

To: JetEx5 Customers

From: ITW GSE Support

RE: Expiration of Product Support

Dear Customers,

Due to the age of the equipment and increasing obsolescence of spare parts, we have made the decision that we will no longer be able to fully support the GPU model JetEx5.

Hence JetEx5 will be classified as End of Life.

ITW GSE commits to supporting the JetEx5 to the best of our ability with archived technical material and available spare parts.

ITW GSE recommends owners of JetEx5 contact their local ITW GSE sales representatives for replacement equipment.

Sales can be contacted at:

North and South America: sales@itwgse.us

All other areas: sales@itwgse.com

Best regards

Ralph Welch
Customer and Sales Support Manager
ITW GSE Americas
rwelch@itwgse.us

（日本語抄訳）

2023年４月18日
製品サポート終了のお知らせ

お客様各位

私達は機器の老朽化とスペアパーツ生産廃止が進んでいるため、GPUモデルJetEx5型を完全にサポートすることができなくなることを決定しました。

従って、JetEx5型は、サポート終了に区分されます。

ITW GSEは、アーカイブされた技術資料と入手可能なスペアパーツにより、JetEx5型を可能な限りサポートすることを約束します。

ITW GSEは、JetEx5型の所有者様に、お近くのITW GSE販売代理店に更新機器について問い合わせることを推奨します。

ITW GSE

7400 JetEx 28 VDC eGPU

Battery-powered Ground Power Unit
Ideal for hangars and remote use

Zero Emission

Large battery capacity
allowing numerous engine starts

It's all about connections

EXTREME FLEXIBILITY

Ideal for hangar use. No emissions and low noise level

Single or 3-phase input voltage

Mobile GPU and line-powered converter in one unit

On-Board Charging System

BC

Recharge from any 50/60Hz standard socket

Can supply power and recharge at the same time

INDEPENDENT AND POWERFUL

The 28 VDC JetEx eGPU is independent due to the onboard battery. Powerful enough to perform at least 100 engine starts on a full charge, the 7400 JetEx is the ultimate in battery driven units. It can even be charged while delivering power to an aircraft.
This innovative eGPU can be used for engine starts, ramp operations and test of avionics.

BUILT TO LAST

Modular design is the basis of ITW GSE design and the 7400 eGPU is no exception. Components are well organized thus ensuring fast service and repair. The eGPU has no rotating parts, subject to wear and tear and is therefore practically maintenance free. The overall result is a very reliable and dependable GPU that is built to last. The eGPU is furnished with a weatherproof steel cabinet,mounted on a pneumatic tire trailer that can easily be towed.

EQUALLY IDEAL FOR HANGAR AND REMOTE USE

Quiet and emission free operation is what you get with the 28 VDC JetEx eGPU. The unit is autonomous and can be in use for long periods of time before it needs recharging. These qualities make this eGPU ideal for hangars and remote use.

ADJUSTABLE VOLTAGE

To ensure the best voltage quality at the aircraft plug, the operator can adjust the voltage compensation via the set-up menu in the user interface. The compensation can be done automatically via feed-back from the F-signal or it can be manually set. Also, the 7400 JetEx offers Line Drop Compensation, Current Limit (300 to 2000 Amps). Those features can easily be configured and provide the operator unprecedented flexibility for ramp and hangar operation.

A WELL-PROVEN SOLUTION

THE ITW GSE 7400 JetEx 28 VDC eGPU COMBINES TWO KNOWN TECHNOLOGIES INTO ONE INNOVATIVE GPU

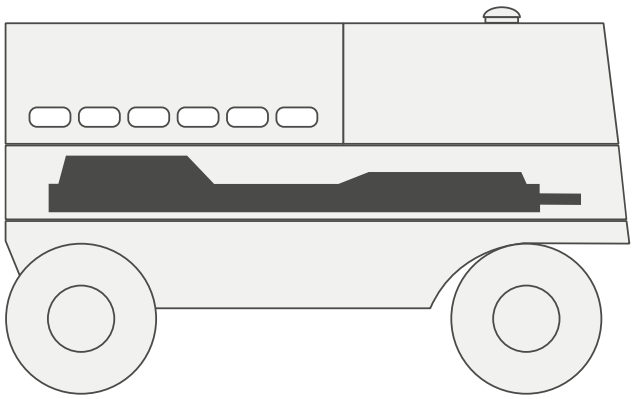
The JetEx eGPU is powered by a 4 fourth-generation Nissan Leaf battery pack with a capacity of 40 kWh. The same type of battery as in all Nissan-branded electric vehicles. Since 2010, over 400,000 of these vehicles have been sold, with close to 90,000 in 2018 alone.

At the output of the eGPU is ITW GSE's well-proven 28 VDC solid-state converter. This combination of two tried and true technologies has created the rock-solid eGPU.

Powered by NISSAN MOTOR CORPORATION

Zero Emission

INPUT
ENERGY SUPPLY
based on Nissan's Leaf battery pack.



OUTPUT
CONVERTER
based on ITW GSE's 1400 solid-state GPU

SAME EASY-TO-USE PLATFORM AS ALL OTHER ITW GSE PRODUCTS

Like all ITW GSE products, the 7400 JetEx eGPU has a common icon-based user interface that is as easy to use as a smartphone or a tablet. This means airport employees already familiar with one ITW GSE product can easily operate another, reducing human error during operation and making product training easier.

SPECIFICATIONS

ITW GSE 7400 JetEx mobile 28 VDC eGPU

www.itwgse.com

Zero Emission

March 2020, Rev.-- M.12466

Input
- Charger Power: 15 kW @ 3-phase
  5 kW @ 1-phase
- Charger input voltage range:
  3 phase @ 260–530 V / 45–65 Hz
  1 phase @ 170-300 V / 45-65 Hz
- Maximum pre-fuse: 50 A

Output
- Current: 600 A continuously
- Engine Start Capability: 2400 A
  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 interlocks

Weight (Without cables)
- Mobile unit approx.
  740 kg (1630 lbs.)

Environmental
- Operating temperature:
  -10°C to 45°C (14°F to 113°F)
  without additional heating/cooling.
  For other operational temperatures,
  please contact ITW GSE
  Relative humidity 10-100%
- Noise level: <65 dB(A)@1m
  – typically 60 dB(A)

Overload ratings
- 600 A continuous use
- 1200 A for 30 seconds
- 1800 A for 10 seconds
- 2100 A for 5 seconds
- 2400 A for 2 seconds

The ITW GSE 7400 JetEx eGPU is well suited to cover the power need for aircraft like the following:
- Cessna Citation
- Beechcraft
- Gulfstream G250
- Dassault FalconJet
- ATR 42 & 72
- Bombardier Q Series / Dash 8

CALIFORNIA ENERGY COMMISSION COMPLIANT BC

CE

Standards
- ISO 6858 Aircraft ground support electrical supplies – General requirements
- MIL-704F Aircraft electric power characteristics
- 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
- AHM 907 Guidelines for electric powered GSE (e-GSE)

ITW GSE 7400 eGPU
ISO 6858:2017
EN 62619 - SIL2
IN COMPLIANCE WITH

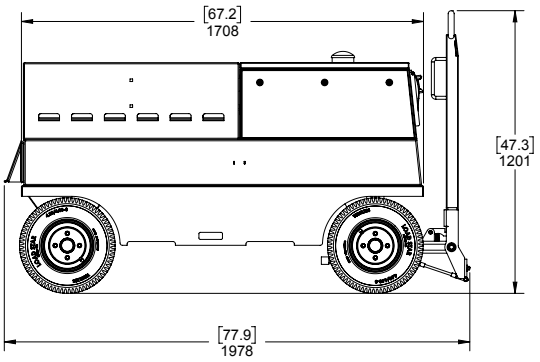
Miscellaneous
- MTTR: max. 20 minutes
- Communication: TCP/IP, USB

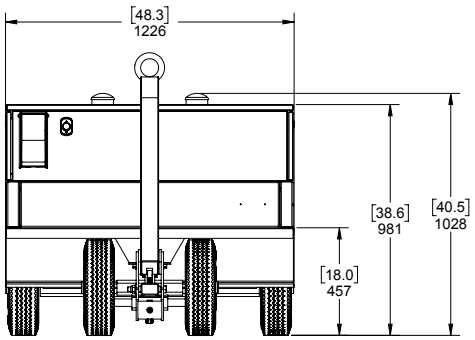
Protection
- Protection class: IP55
  (electronic section)
- Over/under voltage at in/output
- Over temperature
- Internal voltage error
- Short circuit at output
- Trip in case that:
- U<20 VDC for more than 4 seconds
- U>32 VDC for more than 4 seconds
- U>40 VDC for more than 150 ms

Options
Output cables upon request

Standard Features/Equipment
- Beacon* for operation/charging
- Beacon* for warning/ low battery
  incl. sirene
  *Color: specify yellow,blue,red or green
- Simultaneous charging while supplying
  28 VDC power

Standard Options Available
- Input cable and plug according to
  clients specifications
- Towbar with DIN40 towing eye
- Monitoring over GSM/GPS





Dimensions are shown in mm and [inches]

It's all about connections

ITW GSE