



The Hybrid Diesel engine driven GPU is designed to reduce CO<sub>2</sub> emissions with its advanced technical features and optional hybrid configuration.

This unit can also operate from 480V, 3 phase main power grid as electric GPU without fuel consumption, producing zero CO<sub>2</sub> emissions and eliminating engine noise. These features make it ideal for servicing aircraft at remote parking locations, operating bases, as well as inside hangars where emissions-free operation is essential.

This unit is the most versatile GPU available

### General

- Ambient operation temperature: -4 to +131°F
- Humidity: 10 – 100%
- Casing material: composite material, galvanized steel Forklift pockets: yes
- Lighting: during operation
- Warranty: 24 months
- Parking brakes: yes, towbar upright position
- Protection class: IP 55
- Interlock: ON/OFF switch, military/civil switch
- Overloads depend on the configuration
- Dimensions, inches: LxWxH: 90 x 67 x 63
- Control panel with all critical parameters

### Output parameters

- DC Number of outputs: Up to 2
- Current (continuously), A: 800
- Rated output voltage, VDC: 28.5
- Output voltage stabilization accuracy, V:  $\pm 0.5$
- Output voltage ripple factor, %:  $\leq 2$
- Coefficient of efficiency, %: 97
- Overload rating: 1200A, 30s; 1800A, 10s;
- Optional AC Number of outputs: 1
- Total output power, kVA: 45 Hz: 400  $\pm 0.01$
- Rated output voltage, VAC: 3x115/200  $\pm 2\%$
- Range of frequency regulation, Hz: 360-420
- Power factor (at 100% load):  $> 0.8$
- Efficiency factor, %: 97
- Overload rating: 600 sec. - 110%; 300 sec. - 125%

## FDGPU-65 MAIN TECHNICAL PARAMETERS

### Protection

- Overheat
- Over/low voltage
- Overload
- Over/low frequency
- Short circuit
- Engine overheating
- Engine over speeding
- Emergency stop
- Low oil pressure
- Low fuel



### Engine parameters

- Engine: Deutz; Stage 5
- Engine starter: electric
- Engine speed, RPM: 1500-1800
- Fuel tank capacity, l: over 8h of operation
- Engine electric circuit: 12/24V
- Compatible fuel types: Diesel, Kerosene based jet fuels

### Documentation

- User + service manuals
- Operation and Maintenance
- Engine Spare Parts Catalogue
- Passport
- Warranty certificate

\*Compatible fuel types - Jet fuels with lower lubricity characteristics will prematurely wear FIE and engine components. Therefore, FIE parts are not covered under our standard warranty.

The maximum amperage that will be delivered by the GPU to the aircraft's external power connection is significantly reduced due to cable length, cable size and duration of power. If using Jet A1, JP8 or similar, some loss of power will occur compared to diesel due to jet fuel's lower calorific value.

Norms, standards and directives that we follow: ISO6858, ISO1540, BS 2G 219, MIL-STD-704F, EN 62040-1, EN 61000-6-4, EN 61000-6-2, EN61558-2-6, EN 2282, EN 1915-1, SAEARP 50 15, IEC 60721, IEC 60529, DFS400, GOST 54073-2010, ISO 9001, ISO 14001, ISO 45001, 2014/35/EU, 2004/108/EC