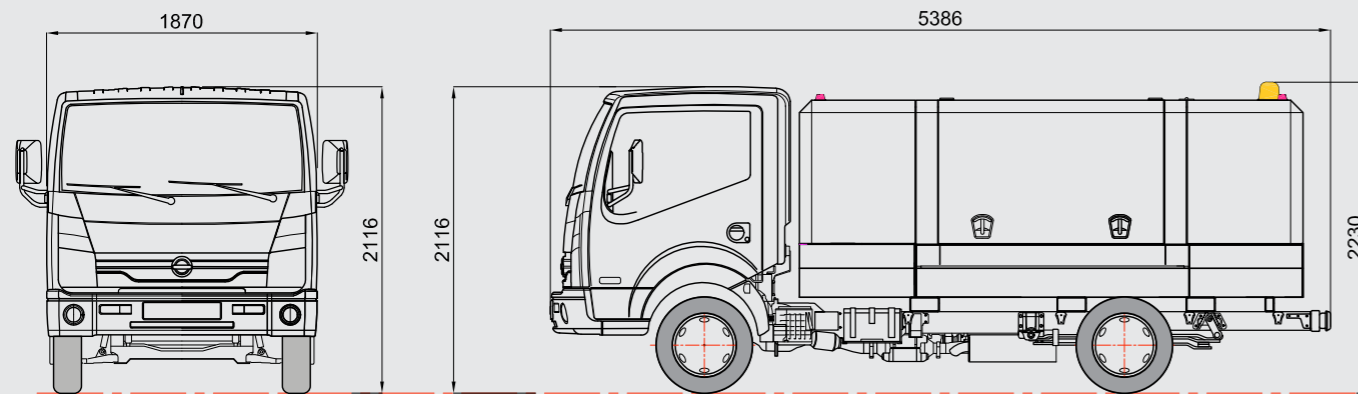


TECHNICAL SPECIFICATIONS

DATA SHEET

Power	180KVA
GPU - Diesel engine, 4 strokes, water cooled	Brand: Deutz Type: TCD 2013 L06-4V
Rated speed	1500 RPM
GPU - Engine emissions in accordance with regulations	Stage III A
TRUCK - Engine emissions in accordance with regulations	Euro 5
Alternator 115/200Vac 400Hz1500 RPM	Brand: EFFETI Type: GPA32.180 180KVA
Output available	N. 2 x 115/200Vac 400Hz N. 1 x 28Vdc
Cable length Lines 115Vac and 28Vdc	10 m.
GPU - Fuel tank capacity	300 l.
TRUCK - Fuel tank capacity	90 l.



DIMENSION

Length (L)	5386 mm	Width (W)	1870 mm (without mirrors)
Height (H)	2230 mm (flashing light included)	Weight	3000 kg



Ground Power Unit **GPU EFFETI - FT99-VAN**

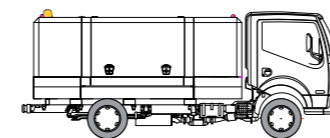


EFFETI srl

via Leopardi, 2 - 44042 Cento (FE) - Italy - Ph. +39 051 901616 - Fax +39 051 904437

www.effeti.it - info@effeti.it

ricreativ.it



AIRPORT TECHNOLOGY





400Hz - Ground Power Unit

GPU EFFETI - FT99-VAN

The GPU EFFETI 400Hz serie FT99-VAN is the right choice if you prefer to have your GPU mounted on a truck.

The unit is installed on a 3 seats commercial vehicle that includes all the comforts and the most advanced technologies to ensure an always safe and enjoyable driving experience, GPU FT99.180VAN combines toughness and reliability granted from EFFETI quality standard and a compact clean design in every detail.

Strong point of the GPU is the 1500 r.p.m. rating that allows

- Lower fuel consumption and therefore a lower impact on operation costs and on environment
- Low noise during operation
- Less mechanic stress for the unit main components, reducing maintenance and repair costs
- Unit better efficiency as the diesel engine works at high torque

Simple and user friendly thanks to its ingenious gull-wing opening system on 4 sides, including cabin; grants the maximum complete accessibility to all internal components both GPU and Van meaning easy, fast and comfortable maintenance

Always sensitive to the problems related to environmental preservation and the need to reduce fuel consumption and carbon dioxide emissions, we have chosen for this application a commercial vehicle equipped with a diesel last generation engine, and a diesel engine STAGE IIIA at 1500 r.p.m. for the GPU

All this to be ensure high performance and low fuel consumption, in accordance with current emission regulations.

Each GPU EFFETI is designed with a specific purpose and FT99.180VAN is no exception: Optimize your work by giving you a product which is simple to use and easy and fast to maintain.



From 90kVA to 180kVA

- ✓ GPU RATED AT 1500 r.p.m.
- ✓ HIGH EFFICIENCY AT IDLE SPEED
- ✓ REDUCED MAINTENANCE COSTS

- ✓ ENVIRONMENT FRIENDLY
- ✓ OPTIONS AVAILABLE
- ✓ EFFECTIVE AFTER SALES SERVICE
- ✓ TRUCK EQUIPPED WITH DIESEL EURO 5 ENGINE

ENGINE

- Diesel engine, 4 strokes, water cooled
- Engine speed: 1500 rpm
- Direct injection, turbo charged with Common Rail System
- Engine electronic control with CAN BUS system
- Filters: oil, fuel and air dry type filter
- Cooling radiator with pushing fan
- 24Vdc Electric system complete with cut-off battery device

FUEL TANK - GPU

- Capacity: 300 liters
- Allocated completely inside the unit structure and protected from bumps and vibrations
- Fuel filler protected from bumps and from contact with electric parts in a proper niche
- Emptying cap
- Easily extractable in case of need

400Hz ALTERNATOR

- Double bearing.
- The alternator can be extract with a forklift without disassemble the canopy or the control board
- Voltage: 115/200Vac
- Frequency: 400Hz
- Rated speed 1500 r.p.m.

- Self-excited and self-regulated
- Electric features in accordance with MIL-STD-704F (Aircraft Electric Power Characteristic)
- Regulation:
 - Voltage precision: ± 1% from 0 to full load (transient)
 - Voltage regulation: ±15V

VAN

- Diesel engine, water cooled
- Exhaust emission standard
- According to the la test regulations
- Doors: 2
- Seats: 3
- Bodywork Type: Single cabin van

PERFORMANCE 28Vdc

- Rectifier Unit 28Vdc/2000A
- 800A continuous
- 1200A for 10 sec
- 2000A for 5 sec

SOUNDPROOF CANOPY

- Sheet steel made canopy with soundproof material
- Gull-wing door opening to grant the maximum accessibility for maintenance of the main components

- N.6 handles for canopy doors open/closing all complete with lockable key
- Noise level at 100% load: 76 Db a 7 Mt.
- N.2 side trays for cable allocating complete with easy-deploy roll system for an easier extraction

CONTROL BOARD

Command and Control:

- On/Off selector DC circuit
- Engine start button
- Engine stop button
- Idle/run speed selector
- 28 Vdc output On/Off buttons with LED light
- 200/115 Vac buttons with LED light
- Emergency stop button
- Potentiometers for fine regulation of: engine r.p.m.
- Output Voltage 28 Vdc, Voltage 115Vac

Controls and Gauges

- Multi function LCD device with readings:
 - AC line 200/115Vac voltage
 - DC 28Vdc voltage
 - Frequency 400Hz

- Current provided
- Power provided
- Hour meter
- Fuel level
- Coolant temperature
- Oil pressure
- Engine r.p.m.
- Battery voltage
- Engine fuel consumption (L/h)

Safeties electronically controlled

- Low oil pressure
- High engine temperature
- Overspeed
- Low fuel level
- Voltage on 28 Vdc out of range
- Current on 28 Vdc out of range
- High diodes temperature
- Under frequency
- Over frequency
- Under voltage on 200/115 Vac output
- Over voltage on 200/115 Vac output

FINISHING

- Standard color White RAL 9010
- Other color finishing upon request

Power 180 kVA



Quality management system: ISO 9001:2008

OTHER FEATURES

- Exhaust muffler is allocated inside the canopy protected from bumps and accidental contacts complete with internal spark arrestor
- N. 1 fire extinguisher homologated, capacity 6 Kg
- N.1 Service beacon light
- N.4 LED size lights

ACCESSORIES AVAILABLE

- Protection for AC and DC plug
- Handle for AC and DC plug
- Engine pre-heating system
- Internal fire fighting system
- Internal service lights
- Transmission and data management via MODEM GSM
- Winter kit for cold temperatures

ENVIRONMENT

- Working temperature: -30°C / + 50°C
- Rel. Hum.: 10-90%
- Altitude: 1000 meters above sea level

