MIL-STD POWER GENERATOR SYSTEMS 150KVA

Technical Characteristics

External Dimensions: 5030 x 1800 x 2600 mm

The MIL-STD Power Generator Systems are equipped by the following MIL-STD subsystems:

- ✓ n. 1 Trailer System
- ✓ n. 1 Steel Canopy
- ✓ n. 1 Forklift Channel Assy
- ✓ n. 1 IVECO NEF67 TM3 Engine
- ✓ n. 1 MECC ALTE ECO38 1SN Alternator
- ✓ n. 1 Command & Control Panel
- ✓ n. 1 Electrical Distribution Panel
- ✓ n. 2 Batteries
- ✓ n. 1 Silencer
- ✓ n. 1 Fuel tank 430 Lt included in the enclosure

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TK10454, 150kWA Power Generator System (PGS) trailer mounted, is operative for Italian Airforce in order to satisfy the special requirements as for MIL-STD needs resulting pitched outside the box. The PGS, is characterized by a steel structure that combines functional autonomy,
total mobility to ensure timeliness intervention, rapid deployment, personnel security and simplicity of use.

The PGS is designed by using MIL-STD items and technologically advanced equipment. The PGS is
easy to use, light and compact, maintainable, repairable and storable without difficulty. PGS is designed in conformity with Machine Directive2006/42/CE. It is rugged and reliable military electrical power generating source, It is easily transportable by trailer and operating under extreme environmental conditions.

The PGS can be used in all military environments where electrical power for tactical equipment or troop support is needed, it can operate in the range -32°C to +49°C and meet all military requirements for humidity, sand, dust, salt spray, fungus and altitude. Teknel PGS is designed for an average technical life of 15 years / 50.000
working hours.

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Performance Characteristic

Rated Power	500 kVA
Concentrated Power	400 V
Rated Frequency	50 Hz
Power Factor	cos ϕ = 0,8.

Electromechanical Characteristic

Stability of the output voltage from the alternator in continuous operation for loads between 0 and 100% and with power factor 0.8 lagging:	± 1%
Stability of the output frequency from the alternator in steady state for loads between 0 and 100%:	0,5%
Maximum variation of the output voltage in dynamic regime for sudden changes in the load with power factor 0.8 lagging with a value equal to 60% of the maximum power- (connection and disconnection):	± 12%
Variation of the maximum output frequency in dynamic mode for sharp fluctuations in the load with power factor 0.8 lagging with a value equal to 60% of the maximum power (connection/disconnection:	± 10%
Recovery time of the nominal voltage and frequency for connection and disconnection of the load:	≤ 4 s
Total harmonic distortion in voltage measured between phases and between phase and neutral with linear load:	≤ 5%

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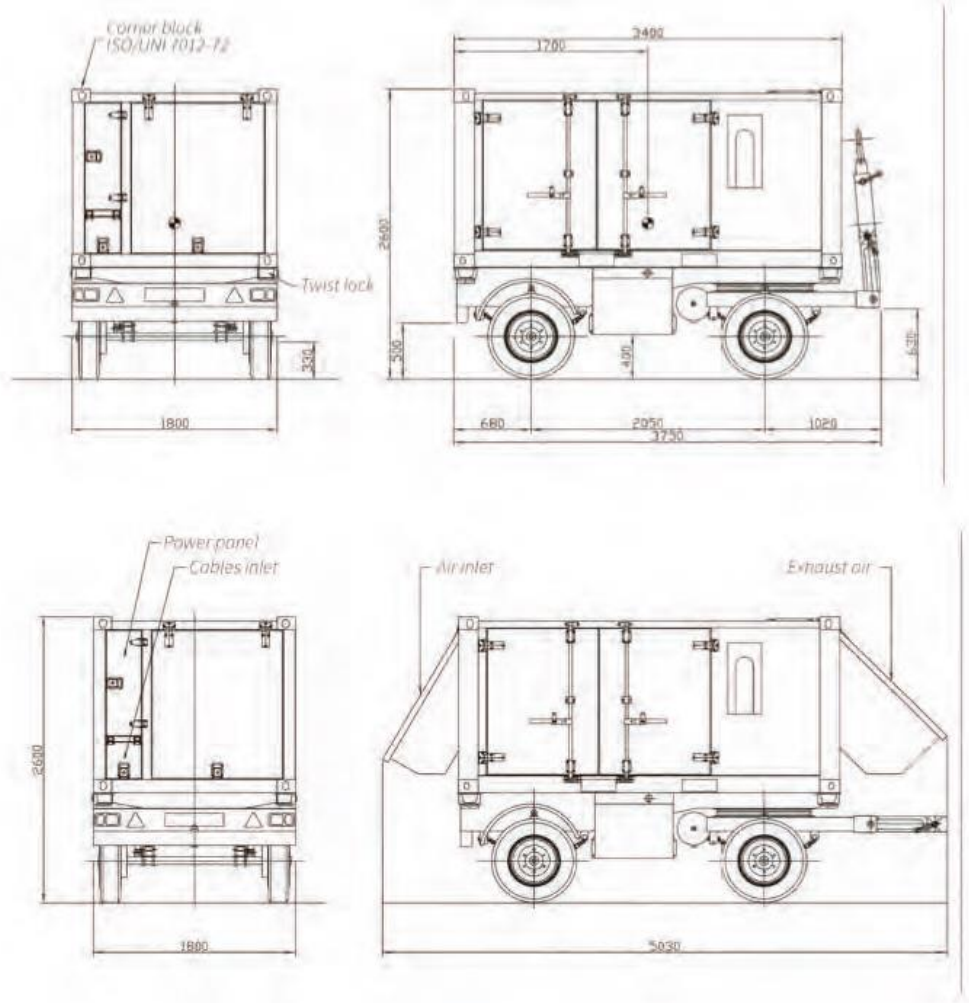

Designed in compliance with:

Machine directive 2006/42/CE	EN 12100-2: 2005
Dir. B.T. 2006/95/CE	EN 12601: 2003
Dir. EMC 2004/108/CE	EN 1050: 1998
DM 13.07.11 - Fire prevention	EN 60204-1
DM 24.07.06 - Noise pollution	EN 61000-6-2 Ed 2a
EN 12100-1: 2005	EN 61000-6-4 Ed 1a

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