



GAS TURBINE GENERATOR 7kW

Revolutionary in mobile power supply!

3-phase 400VAC, 7000 Watt continuous.

Automatic ECU START/STOP system.

Fuel: Diesel, Petroleum, Kerosene (Jet A1).

Consumption: 10 litres (2,5 gal) per hour.

The new Generation: Ultracompact world's highest specific output!

Equipped with air intake silencer and high current batteries (add on exhaust muffler optional)

Total unit weight: 31kg, with optional muffler 35 kg

Small - Lightweight - Powerful!

APPLICATIONS

- Emergency power for disaster operation
- Emergency power supply during power blackout
- Mobile power at construction
- Mobile power supply for fire departments

FEATURES

- 3-Phase sine wave output voltage
- 7 kW output power
- Immediate power (no warm up)
- Easy to start and to shut down
- High power density and light weight
- Easy to carry in rough terrain



Pure Sinewave



High frequency technology



Light weight, compact size



Full electronic protection



Extended temperature range

SPECIFICATIONS

Gas Turbine specifications	
Enclosure	Chrom-Nickel
Gear	Integrated, maintenance free metal
Nominal RPM	100.000 U/min
Nominal Power (Gas Turbine)	14 hp / 10,6 kW @ ISA standard atmosphere
Gearbox output	20.000 U/min (gear ratio 5:1)
Turbinewhee	CNC manufactured from Inconel Superalloy
Lubrication	Light version - mixed lubrication
Fuel	Direct start with Jet fuel A1 and Diesel
Consumption	170 ml/min only!!
Operation	Fully automatic with integrated starter
General specifications	
TBO (Time between overhauls)	100h (depending on environmental conditions)
Dimension L x W x H	58 x 36 x 42cm (without muffler)
Weight including muffler	31 kg
Noise level	69,4 dB at 10 meter (with optional muffler)

Electrical specifications	
Output voltage	3- phase 400 VAC
Voltage tolerance without load	±1 %
Frequency	50 Hz
Frequency tolerance	±0.2 Hz
Harmonic distortion	<3 %
High frequency ripple	≤12 Vrms
Minimum output current	0 Aac
Continuous current (Io)	12 Aac
Peak current (Iopk) 5 sec	16 Aac
Maximum peak current (Ipk)	23 Aac
Shortcircuit* duration to stops	2 s
Consecutive shortcircuit number to locked	5
Load regulation (Vin 316 .. 380 Vdc)	≤4 %
Load regulation (Vin 240 .. 316 Vdc)	≤25 %
Total output power (Po)	7000 W
Total peak power	9000 VA
Power factor	±0.75 Cos Phi
Storage temperature	-40...85 °C
Operating temperature range	-40...50 °C
Derating Po/temperature	-2.5 % per °C from 50 to 70 °C
Cooling	External forced air (minimum 2 m/s) through the case
Relative humidity	5...90 % (non-condensing)
RoHS Compliance	According to 2002/95/EC
Emission	EN61000-6-4
Immunity	EN61000-6-2
Safety	EN60950 Class I
Dielectric strength Input/ Output	Not isolated
Dielectric strength Input/Earth	1500VAC
Dielectric strength Output/Earth	1500VAC
Dielectric strength Signals/ Input-Output	1500VAC
Protection	Output protected against overloads and shortcircuits Over-temperature protection shutdown

*shorcircuit case: output voltage < 140Vac

