

# Gas Turbine Generator



## Turbine Generator

Output 380VAC / 8000W

### Description

Revolutionary in mobile power supply!  
 380VAC, 8000 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: 28kg, with optional muffler 33 kg

**Small - Lightweight - Powerful!**

### Benefits

- Immediate power (no warm up)
- High power density and light weight

## Specifications ( Specifications Subject to Change Without Notice)

Gas Turbine specifications	
Enclosure	Chrom-Nickel
Gear	Integrated, maintenance free metal
Nominal RPM	100.000 U/min
Nominal Power (Gas Tubine)	14 hp / 10,6 kW @ ISA standard atmosphere
Gearbox output	20.000 U/min (gear ratio 5:1)
Turbinewheel	CNC manufactured from Inconel Superalloy
Lubrication	Light version - mixed lubrication Industrial version - oil-circulation system
Fuel	Direct start with Jet fuel A1 and Diesel
Consumption	170 ml/min only!!
Operation	Fully automatic with integrated starter
General specifications	
Dimension L x W x H	77 x 41 x 45cm
Weight including muffler	33 kg
Noise level	69.4 dB at 10 meter (with optional muffler)

Electrical specifications	
Output voltage	380 VAC 3~
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	16.5 Aac
Maximum peak current (Ipk)	23.5 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)	8000 W
Total peak power	10000 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 (non-condensing)	5...90 %
Environmental regulations	RoHS according to directive 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

\*shortcircuit case: output voltage < 140Vac

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