

1.1.4. Gas Turbine Specification

- Manufacturer : SOLAR
- Model : TAURUS 60 - T-7301
- Continuous rating at power shaft at ISO conditions : 5'493 kW (Gas fuel)
- Turbine design : open cycle, single shaft turbine cold-end drive
- Compressor : 12 stage axial
- Compression ratio : 12 : 1
- Combustor : annular with 12 fuel injectors
- Turbine : 3 stage, air cooled first stage power turbine
- Bearings : tilting-pad type
- Fuel type : Liquid fuel acc. to Specification on Item 1.7, and to attached Solar spec. ES-9.98
- Turbine rotational speed : 14'944 RPM
- Heat rate at ISO conditions : 11'881 kJ/kWh
- Turbine air inlet flow at ISO conditions : 21.74 kg/s
- Exhaust gas temperature at ISO conditions : 485 °C
- Exhaust gas mass flow at ISO conditions : 22.02 kg/s

Miscellaneous

- Turbine air inlet plenum including horizontal flange and flexible bellows
- Insulating stainless steel sheet for protection of extremely high temperature external areas

- Gas turbine overall dimensions (including gearbox) : L = 4'650 mm
W = 1'720 mm
H = 1'880 mm
- Gas turbine weight : Approx. 3'545 kg