

“BHEEM –The Strong” - Steam Turbine Generators

Technical Data Sheet

Turbine Model	BHEEM BG 100 - 500
Prime Mover for	125 - 625 KVA Alternator
Design	A.P.I. Standard – balanced Mounting
Type	Single Stage, Curtis Wheel
Casing	Horizontally Split
Rotor Shaft	Solid Forged, Machined, Hard Chrome Plated at the Gland area & Dynamically Balanced Rotor with Curtis Wheel keyed to the shaft.
Seals	Five Carbon Rings on Each side
Bearing	Babitted Bearing with forced lubrication
Lubrication	Forced lubrication by 100 LPM oil Pump
Speed Governor	Hydro– Mechanical Throttle Control
Turbine Speed	7500 RPM
Gearbox Output speed	1500 RPM for 50 Hz or 1800 RPM for 60 Hz
Gearbox Lubrication	Forced lubrication by 100 LPM oil Pump
Inlet Steam Pressure	10.5 / 20 / 30 BarG
Inlet Steam Temperature	190 / 215 / 236°C (Dry Saturated)
Inlet Steam Flow	12 – 16 Kg per KW per Hour
Steam Discharge Pressure	1.0 BarG
Steam Discharge Temperature	120
Turbine Efficiency	
Thermal	≈ 47%
Mechanical	≈ 33%
Overall	≈ 36% assuming Mech. eff. of 84% for the AC Generator.
Inlet & Discharge Connections	50 mm & 250 mm – Flanges provided
Approximate dimensions	1700 x 1400 x 1200
Approximate weight	1250 Kg

Great things are done by a series of small things brought together.