

1004TG POWER UNIT

TECHNICAL DATASHEET

Production Tolerance : $\pm 5\%$

Stand-By (Maximum) Rating	Max.Torque	Fuel Consumption
79 kW (106 HP) / 2200 rpm	354 N.m (36 kg.m) / 1800 rpm	215 g/kW.h (158 g/HP.h) / 2200 rpm

Note : All datas are according to DIN6270B

MECHANICAL SYSTEM

Manufacturer	Lovol / China
Engine Model	1004TG
Type	4 cycle , Diesel , Turbocharged
Combustion Type	Direct Injection
Firing Order	1-3-4-2
Cylinder Number	4 cyl
Bore x Stroke	100 x 127 mm
Displacement	3,99 lt
Compression Ratio	17,5
Flywheel & Hsg	SAE 3/11,5"
Dry Weight	279 kg
Dimensions LxWxH	668x614x782 mm

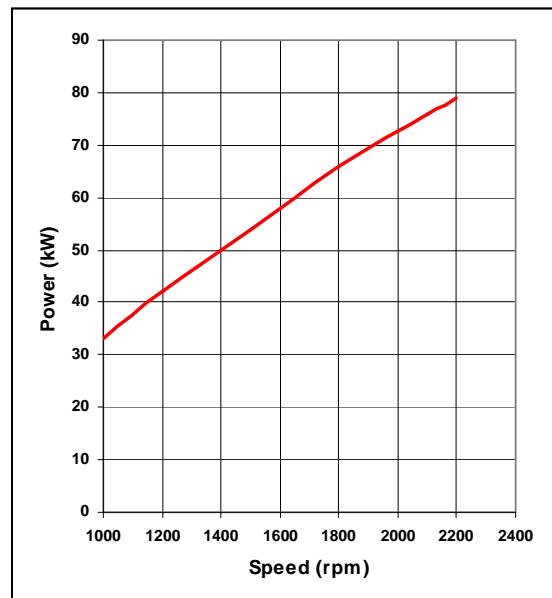
COOLING SYSTEM

Cooling Type	Water Cooled
Cooling Method	Forced circulation by Centrifugal Pump
Cooling Capacity	22,2 lt (incl.radiator)

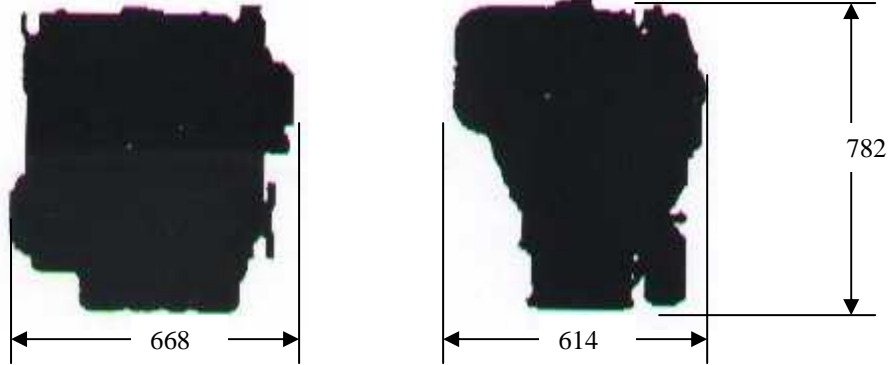
FUEL SYSTEM

Injection Pump	Bosch B4C Inline Type
Injection Nozzle	Throttle Type
Nozzle Open Pres	258 kg/cm ²
Governor Type	Mechanical
Fuel Selenoid	Energized to Run
Fuel Filter	Full flow,cartridge type
Fuel Delivery	Mechanic Feed Pump
Fuel	Diesel Fuel (EN590)

PERFORMANCE CURVE



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LUBRICATION SYSTEM

Lubrication Method	Forced-feed circulation by gear pump
Oil Pump	Gear Driven
Oil Capacity	8,5 lt
Oil Filter	Full Flow cartridge
Recomended Oil	CD/CE/CF 10W/40 grade semi-synthetic or synthetic

ELECTRICAL SYSTEM

Charging Alternator	14 V, 65 Amp
Starting Motor	12 V , 3,7 kW
Battery Voltage	12 V
Capacity (Recomended)	80 Ah

OPTIONS

(EWI)	Engine Wiring
(CPA)	Basic Start Panel
(ESI1)	Industrial type Silencer
(ESI2)	Residential type Silencer
(BAT)	Battery , cables & rack
(BFR1)	Baseframe Std.c/w fuel tank
(BFR2)	Extended Baseframe c/w fuel tank
(HEX)	Heat Exchanger Kit with pipeline
(CPL)	Coupling with its guard
(TBX)	Tool Kit

UNIT CONVERSION

HP = kW x 1,3596
Torque (N.m) = 9549,3 x P(kW) / N(1/min)
Torque (kg.m) = 716,2 x P(HP) / N(1/min)
1 Bar = 1,019726 kg/cm ² = 100 kPA
1 kW = 0,2388 kcal/s

IDEA

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