

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

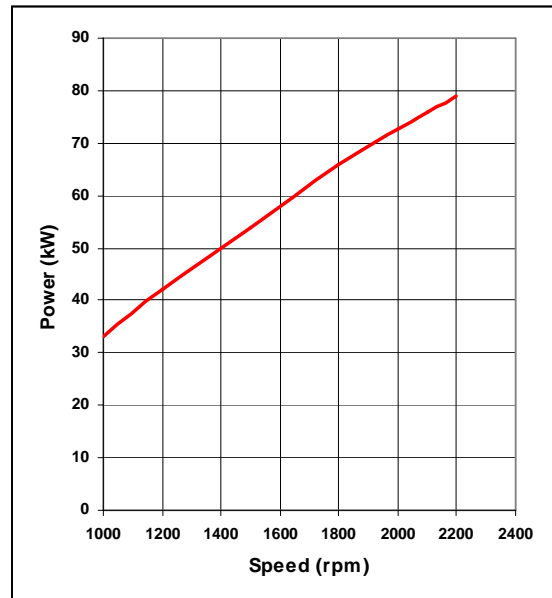
COOLING SYSTEM

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

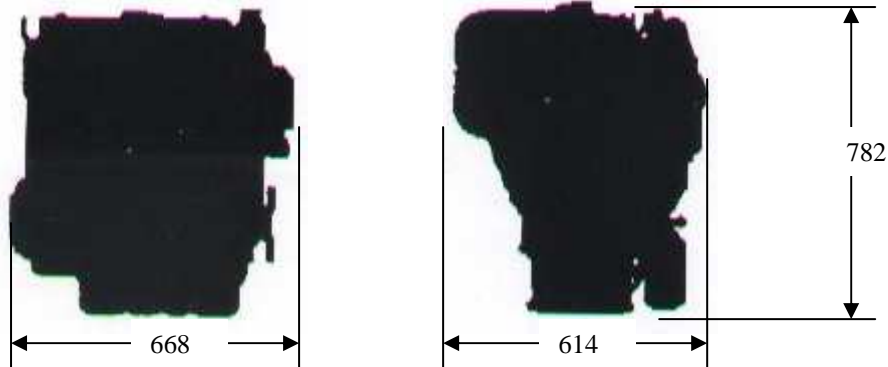
FUEL SYSTEM

Injection Pump Bosch B4C Inline Type
Injection Nozzle Throttle Type
Nozzle Open Pres 258 kg/cm²
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

