

# 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

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

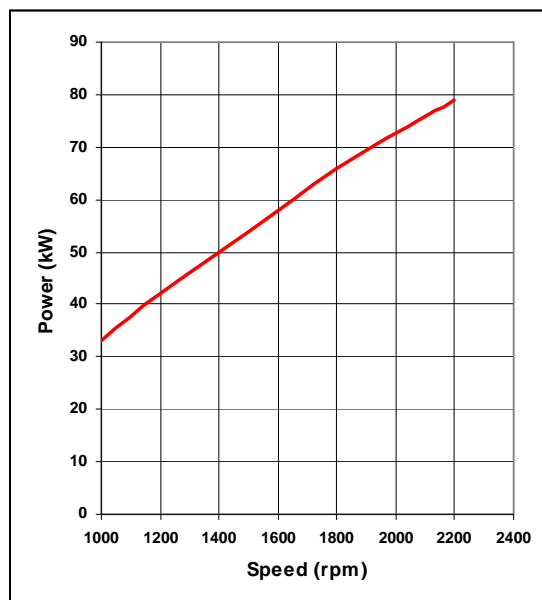
### COOLING SYSTEM

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

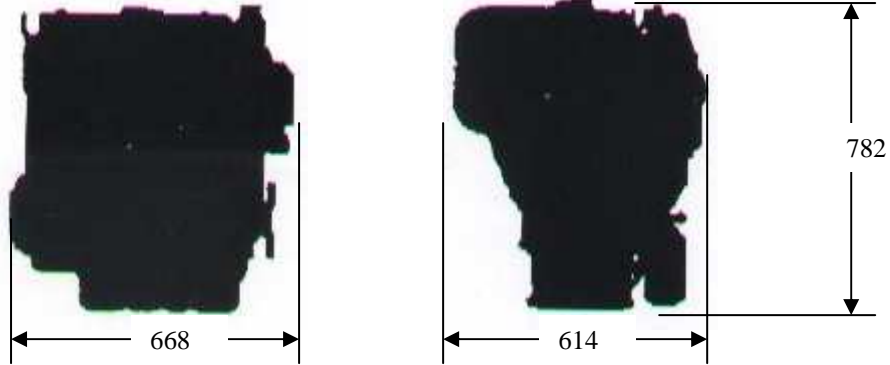
### FUEL SYSTEM

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

### PERFORMANCE CURVE



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### LUBRICATION SYSTEM

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

### ELECTRICAL SYSTEM

<b>Charging Alternator</b>	14 V, 65 Amp
<b>Starting Motor</b>	12 V , 3,7 kW
<b>Battery Voltage</b>	12 V
<b>Capacity (Recomended)</b>	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 <sup>2</sup> = 100 kPA
1 kW = 0,2388 kcal/s

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