

# S4L2 POWER UNIT

## TECHNICAL DATASHEET

Production Tolerance :  $\pm 5\%$

Stand-By (Maximum) Rating	Max.Torque	Fuel Consumption
25,1 kW (34,1 HP) / 3000 rpm	98 N.m (10 kg.m) / 1900 rpm	248 g/kW.h (182 g/HP.h) / 3000 rpm

Note : All datas are according to DIN6270B

### MECHANICAL SYSTEM

<b>Manufacturer</b>	Mitsubishi / Japan
<b>Engine Model</b>	S4L2
<b>Type</b>	4 cycle , Diesel , Naturally aspirated
<b>Combustion Type</b>	Swirl Chamber Type
<b>Firing Order</b>	1-3-4-2
<b>Cylinder Number</b>	4 cyl
<b>Bore x Stroke</b>	78 x 92 mm
<b>Displacement</b>	1,758 lt
<b>Compression Ratio</b>	22
<b>Flywheel &amp; Hsg</b>	SAE 5/7,5"
<b>Dry Weight</b>	155 kg
<b>Dimensions LxWxH</b>	655x433x573 mm

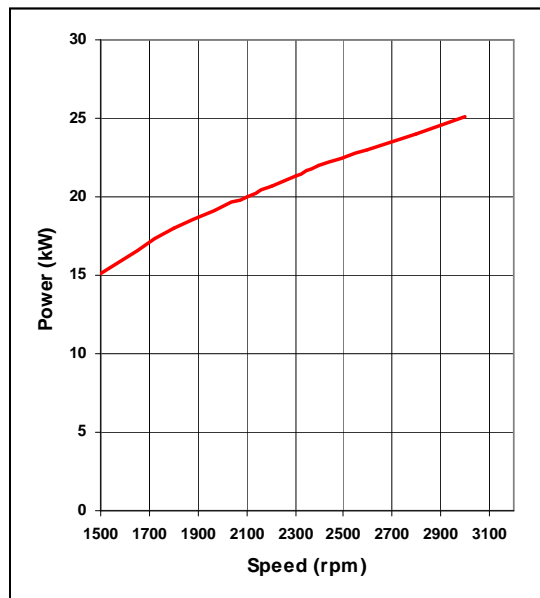
### COOLING SYSTEM

<b>Cooling Type</b>	Water Cooled
<b>Cooling Method</b>	Forced circulation by Centrifugal Pump
<b>Cooling Capacity</b>	2,5 lt

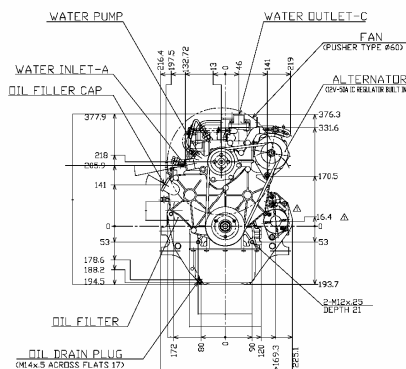
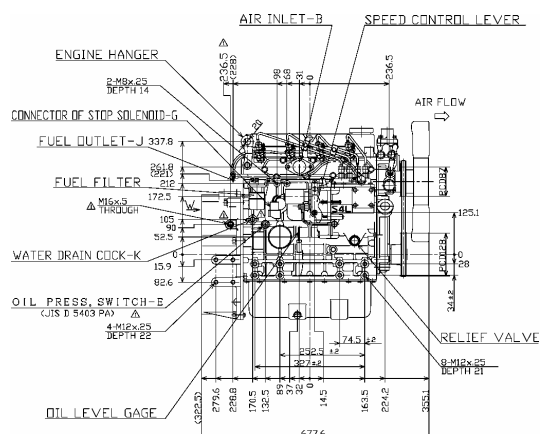
### FUEL SYSTEM

<b>Injection Pump</b>	Bosch Type
<b>Injection Nozzle</b>	Throttle Type
<b>Injection Timing</b>	19° BTDC
<b>Governor Type</b>	Mechanical
<b>Fuel Selenoid</b>	Energized to Run
<b>Fuel Filter</b>	Full flow, cartridge type
<b>Fuel Delivery</b>	Electric Feed Pump
<b>Fuel</b>	Diesel Fuel (EN590)

### PERFORMANCE CURVE



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## LUBRICATION SYSTEM

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

## 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

## ELECTRICAL SYSTEM

<b>Charging Alternator</b>	12 V , 50 Amp
<b>Starting Motor</b>	12 V , 2,0 kW
<b>Battery Voltage</b>	12 V
<b>Capacity (Recommended)</b>	80 Ah

## 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