

## PRODUCT PROFILE

<b>Engine Performance</b>	
Model	<b>BF6M1015C-LA G4</b>
Power	<b>310-345 kW</b>
No. of cylinder	6
Control system	Mechanical / Electronic
Aspiration mode	Turbocharged
Inter-cooling method	CAC
Cylinder type	One-cylinder-one-head
Displacement	11.906 L
Cylinder arrangement	V-form 90° angle
<b>Rotation Speed</b>	
Speed rotation	1500 rpm; 50 Hz
Effective pressure	23.1 bar
Max exhaust gas temperature	520°C
Charge air temperature	194°C
Inlet air (25°C/1000mbar)	1432 m <sup>3</sup> /h
Emission	1720 kg/h
<b>Engine Data</b>	
Dry weight	850 kg
Max engine width	931.7 mm
Max engine length	1043.1 mm
Bore	132 mm
Stroke	145 mm
Compression ratio	16.5
Rotation direction (view from flywheel)	Anti-clockwise
Flywheel housing	SAE 1
Flywheel	14"
No. of flywheel teeth	167
Engine support	Rigid
Battery voltage	24 V
Starter rated power	9 kW
Generator capacity	55 A
Generator volatage	28.5 V
Max exhaust backpressure	50 mbar
Max allowable air inlet resistance	50 mbar
Turbocharger inlet size	122 mm
Turbocharger exhaust flange connect bolt	4 x M10
Turbocharger exhaust flange inner diameter size	117 mm
<b>Lubrication System</b>	
Min oil pressure at 1500 rpm (oil temp 90°C)	≥ 3 bar
Min oil pressure at 600 rpm (oil temp 90°C)	≥ 1 bar
Oil consumption rate	< 0.3% of fuel consumption
Oil pan	Flywheel side
Oil pan inclination	30°
Initial oil filling	38 L
Oil filter element type	Disposable filter
No. of oil filter element	1
<b>Cooling System</b>	
Engine coolant capacity	17 L
Water-pump flow	260 L/min
Water-pump pressure	1.25 bar
Allowable pressure loss of cooling system (include pipeline)	≤ 0.35 bar
Heat carry off by coolant	178 kW
In & outlet coolant size	70 mm
Temperature of switch on two thermostats respectively	79/87°C
Temperature of switch on two thermostats totally	94/102°C
Max allowable operating temperature	103°C
Temperature difference between inlet and outlet coolant	≤ 8°C
Inter-cooler cooling power	78 kW
Charge air outlet size	90 mm
Fan	Exhaust type
Fan connection	Gear drive + coupler
Fan diameter	880 mm
Fan power consumption	≤ 14 kW
Fan transmission ratio	0.96
<b>Fuel System</b>	
Cylinder ignition sequence	1-6-3-5-2-4
Idle speed	600±50 rpm
Low-pressure pump oil load capacity	190 L/h
Fuel filter element type	Disposable filter
No of the fuel filter element	2