

PRODUCT PROFILE

Engine Performance	
Model	BF6M1015C-LA G4
Power	310-345 kW
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
Rotation Speed	
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 ³ /h
Emission	1720 kg/h
Engine Data	
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
Lubrication System	
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
Cooling System	
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
Fuel System	
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