Baudouin

PowerKit Engine 4M11 Series

General Specifications

Bore x Stroke	105 x 130 mm	
Displacement	4.5 L	
N° of Cylinders	4	
Cylinders Arrangement	In line	
Fuel System	Mechanical Pump	
Governor (Gov.)	Electronic	



Asp.

Т

Т

T/A-A

Т

T/A-A

Gov.

Elec¹

Elec¹

Elec

Elec¹

Elec

Aspiration (Asp.)

Model

4M11G70/5

4M11G90/5

4M11G120/5

4M11G83/6

Diesel Engine

Gross Engine Output Typical Generator Output Prime Standby Prime Standby Speed **Power PRP** Power ESP Power (PRP) Power (ESP) Rpm kWm kWm kWe kVA kWe kVA 1500 52 57 72 60 66 65

81

108

93

T / T/A-A

4M11G106/6180010811896120Aspiration : T = Turbocharged, T/A-A = Turbocharged & Air-to-Air Aftercooled

74

98

85

Aspiration : I = Turbocharged, T/A-A = Turbochar 1 : Mechanical governor available as option

1500

1500

1800

¹: Mechanical governor available as option

Standard Equipment

Engine and block

Cast iron gantry type structure block

One-piece forged crankshaft

Separate cast iron cylinder heads and wet liners Aluminum alloy pistons with oil cooling gallery

Cooling system

Radiator and hoses supplied directly mounted on the engine

Thermostatically-controlled system with belt driven coolant pump and pusher fan

Lubrication system

Flat bottom large capacity oil pan

Spin-on full-flow lube oil filter

Fuel system

66

88

75

P type fuel injection pump and injector for higher inject pressure

72

96

83

106

90

120

103

132

Duplex fine filter for better efficiency

82

110

94

Air intake and exhaust system

Top mounted turbocharger optimized for gen-set application Special rear mounted air filter with restriction indicator

Exhaust manifold shield for heat isolating

Electrical system

12 Vdc electric starter motor and battery charging alternator

LOP + HWT sensors

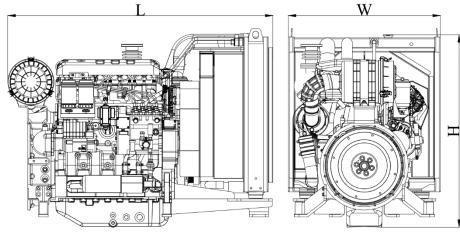
Flywheel and housing

SAE 3 flywheel housing and 11.5" flywheel

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Dimensions and Weight



Diesel Engine		Dimensions and dry weights including radiator			
Model	Speed Rpm	L mm	W mm	H mm	Weight Kg.
4M11G70/5	1500	1389	800	1002	612
4M11G90/5	1500	1389	800	1002	612
4M11G120/5	1500	1389	800	1038	660
4M11G83/6	1800	1389	800	1002	612
4M11G106/6	1800	1389	800	1038	660

Ratings definitions

Emergency Standby Power (ESP)

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine's ESP power rating. Typical operational hours of the engine is 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

Unlimited Prime Rated Power (PRP)

Prime Power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's PRP power rating during any 24 hour period. An overload capability of 10% is available, however, this is limited to 1 hour within every 12 hour period.

Continuous Power (COP)

Continuous Power is the maximum power available for an unlimited period of use at a constant load factor. No overload capability is allowed.

- 1) All ratings are based on operating conditions under ISO 8528-1, ISO 3046, DIN6271. Performance tolerance of ±5%.
- Test conditions : 100 kPa, 25°C air inlet temperature, relative humidity of 30%, with fuel density 0.84 kg/L. Derating may be required for conditions outside these; please contact the factory for details.
- Power output curves are based on the engine operating with fuel system, water pump and lubricating oil pump; not included are battery charging alternator, fan and optional equipment.