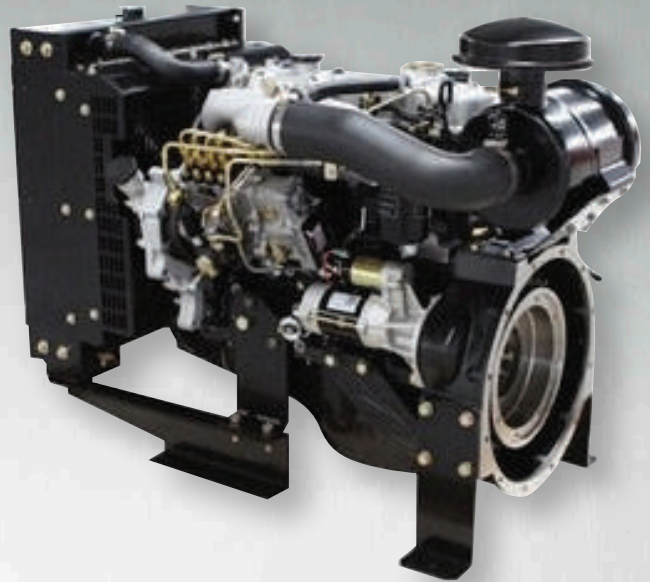




SMAN Diesel Engine Series

for Generator, water pump 9~250kW

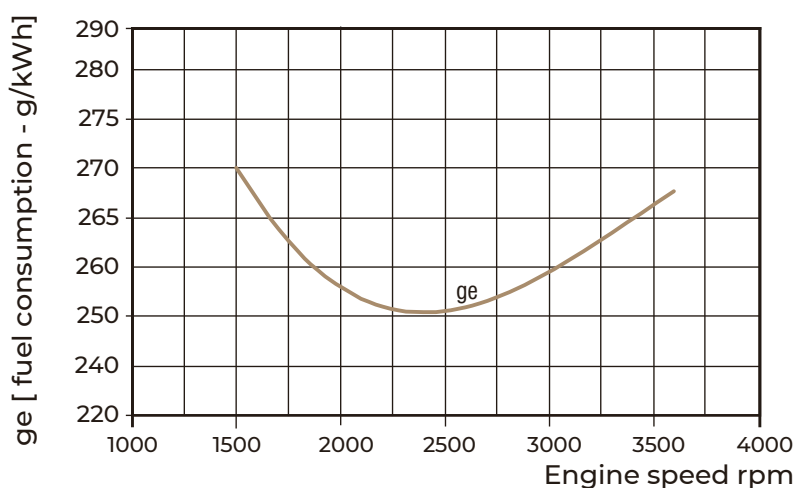
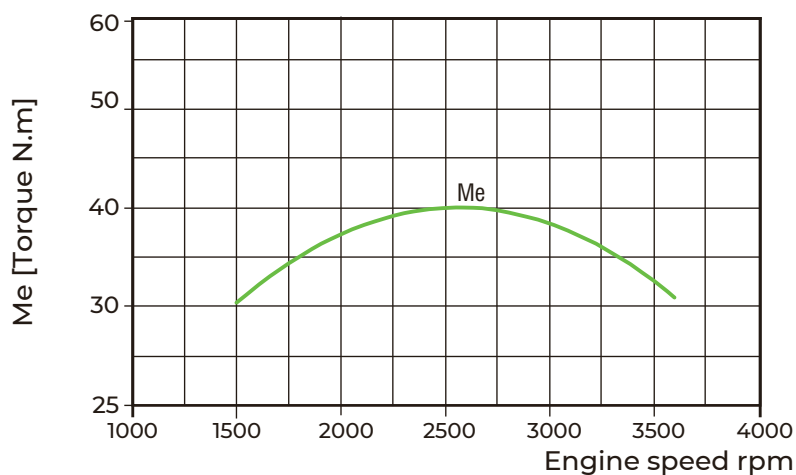
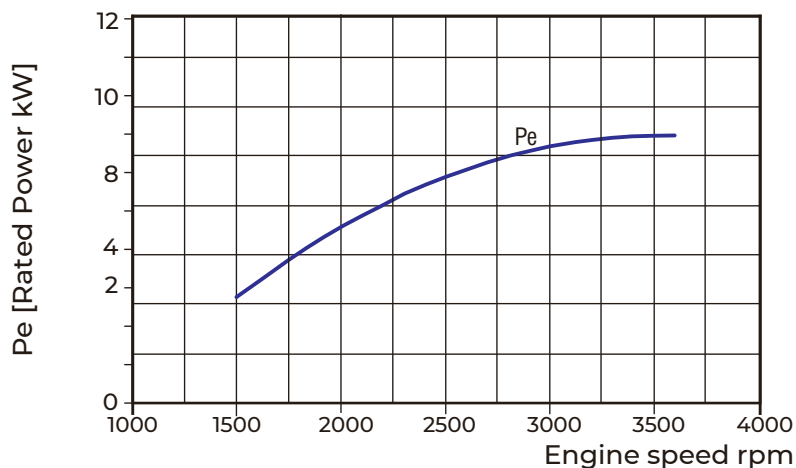
DENER HOLDINGS SDN.BHD

Level 3A, Sunway Visio Tower, Lingkaran SV,
Sunway Velocity, Kuala Lumpur Wilayah Persekutuan, Malaysia
Tel : +60397712413
Email : enginesales@smen-engine.com
www.smen-engine.com

smen
ENGINE

MK1H12H

9kW@3600 RPM



SPECIFICATION

Model	MK1H12H
Number of Cylinders	1
Power (kW)	8.5
Max power (kW)	9
Speed (RPM)	3000
Max speed (RPM)	3600
Intake Way	Natural
Displacement (L)	0.668
Bore / Stroke	100x85
Operation Hours	Normal/Max: 12/24h
Oil Capacity (L)	2.1
Fuel Consumption at Full Load (L/hr)	2.5-3.5
Cooling Method	Air Cooled
Lubricating Method	Pressure cycle and Splash composite
Starting Method	Electric Starting 12V / 36 - 60Ah
Net Mass (kg)	58

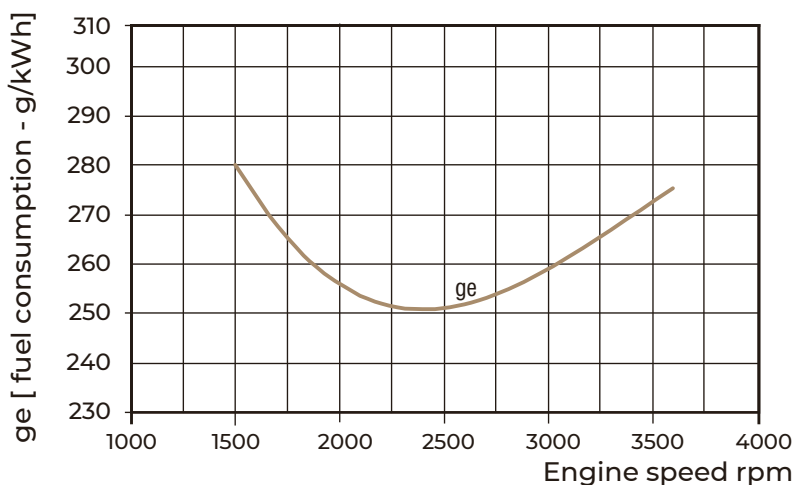
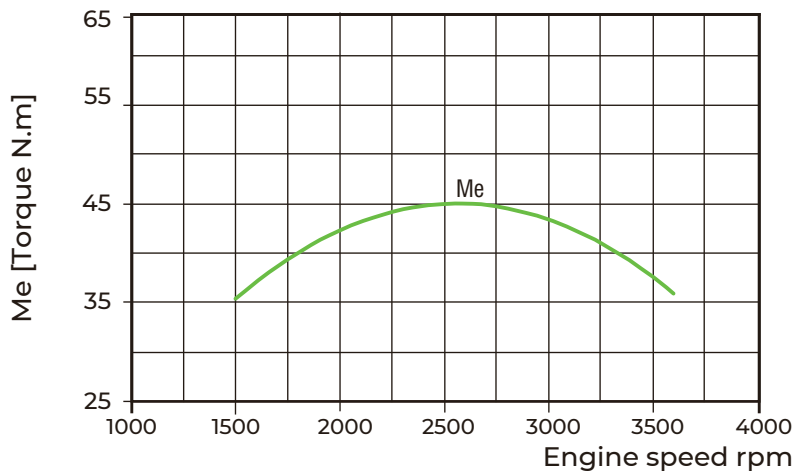
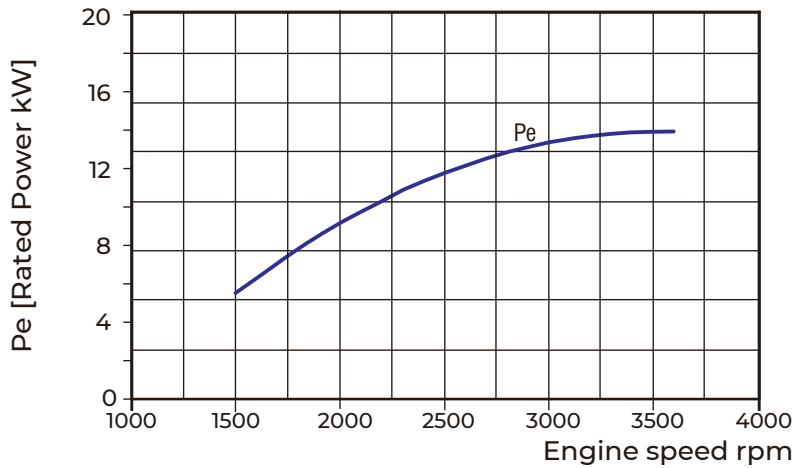
SCOPE OF SUPPLY:

Radiator, 12 V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 1 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

MK2H17H

13kW@3000 RPM



SPECIFICATION

Model	MK2H17H
Number of Cylinders	2
Power (kW)	13
Max power (kW)	14
Speed (RPM)	3000
Max speed (RPM)	3600
Intake Way	Natural
Displacement (L)	0.875
Bore / Stroke	88 x 72
Operation Hours	Normal/Max: 12/24h
Oil Capacity (L)	1.7 - 2.3
Fuel Consumption at Full Load (L/hr)	3.9 - 4.5
Cooling Method	Air Cooled
Lubricating Method	Pressure cycle and Splash composite
Stating Method	Electric Starting 12V / 36 - 60Ah
Net Mass (kg)	60

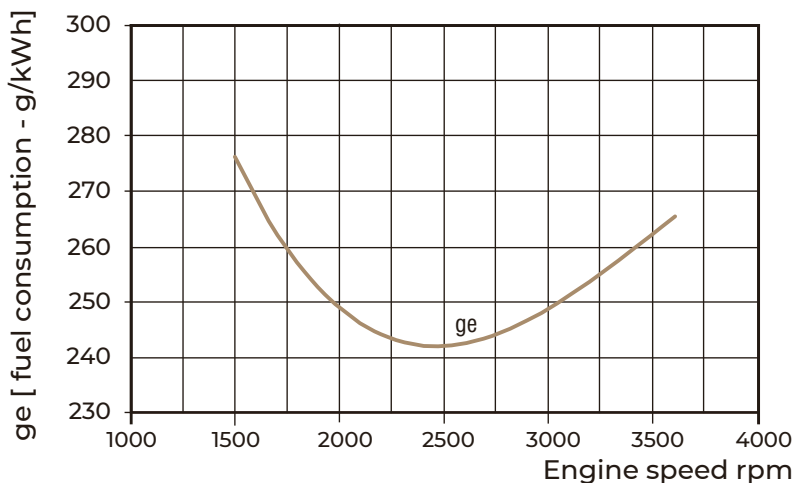
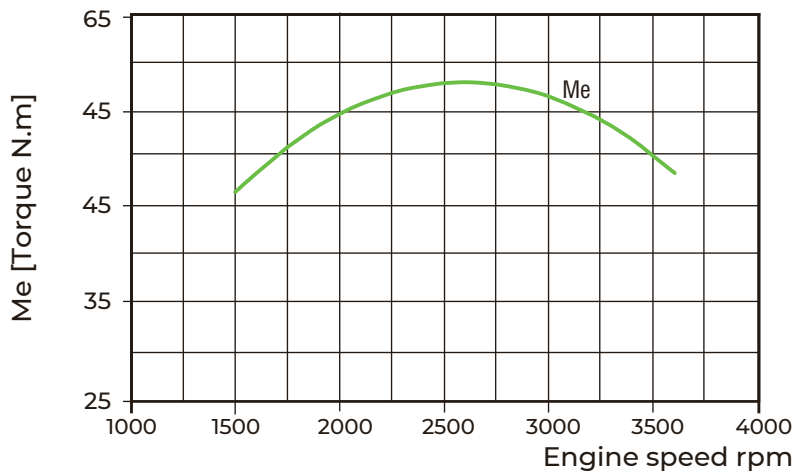
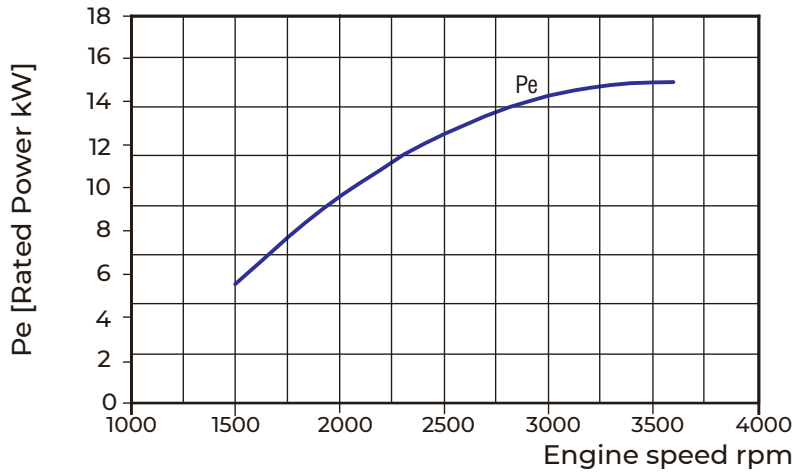
SCOPE OF SUPPLY:

Radiator, 12 V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 2 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

MK2H20H

15kW@3000 RPM



SPECIFICATION

Model	MK2H20H
Number of Cylinders	2
Power (kW)	15
Max power (kW)	16.5
Speed (RPM)	3000
Max speed (RPM)	3600
Intake Way	Natural
Displacement (L)	0.997
Bore / Stroke	92 x 75
Operation Hours	Normal/Max: 12/24h
Oil Capacity (L)	1.8 - 2.8
Fuel Consumption at Full Load (L/hr)	4.1 - 4.6
Cooling Method	Air Cooled
Lubricating Method	Pressure cycle and Splash composite
Starting Method	Electric Starting 12V / 36 - 60Ah
Net Mass (kg)	78

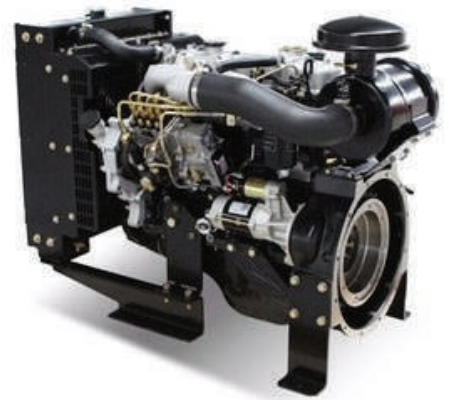
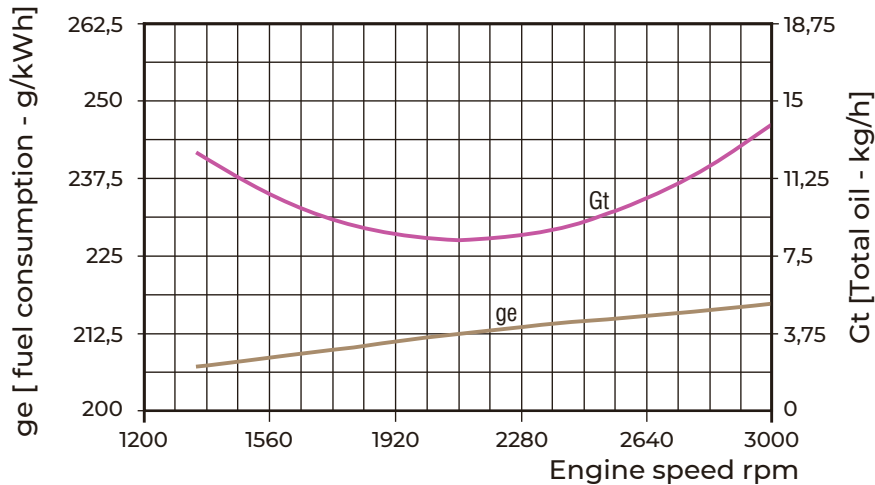
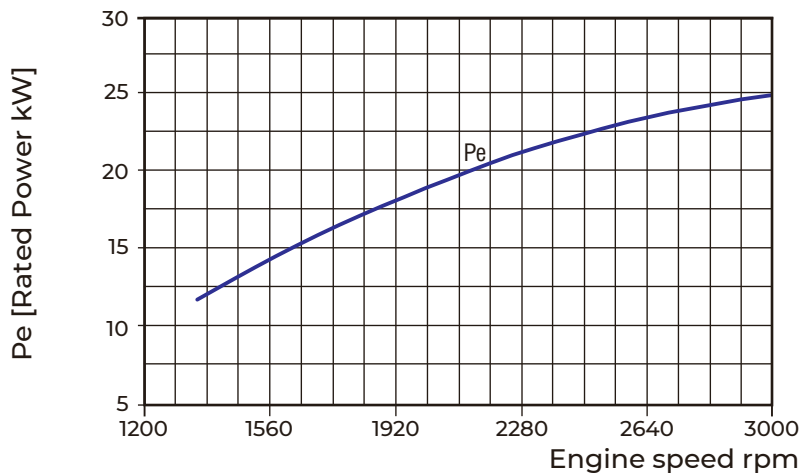
SCOPE OF SUPPLY:

Radiator, 12 V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 2 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

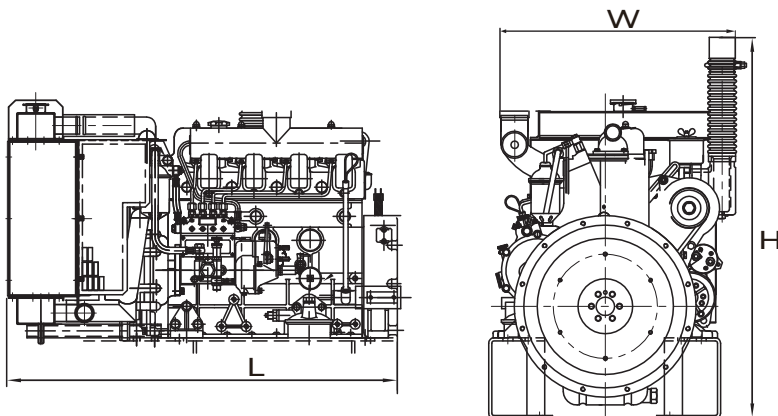
MK4H34H

25kW@3000 RPM



SPECIFICATION

Engine Model	MK4H34H
Aspiration	Natural
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	85x100
Displacement(L)	2.27
Compression ratio	18:1
Rated power (KW)	25
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	270
12h Fuel flowmeter (L/h)	7.8
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	
Net Weight (kg)	230
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	75/90
Dimensions	735x585x637



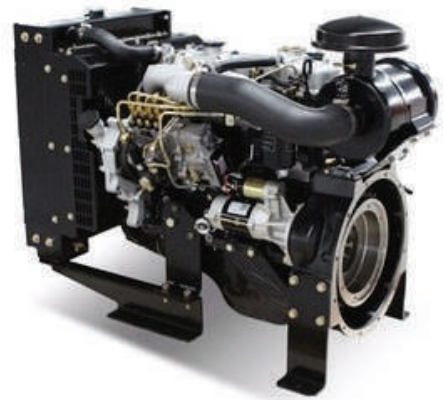
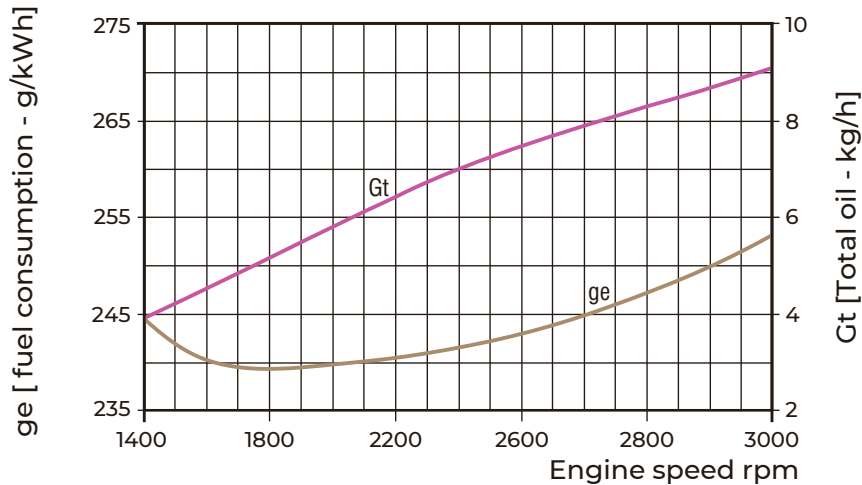
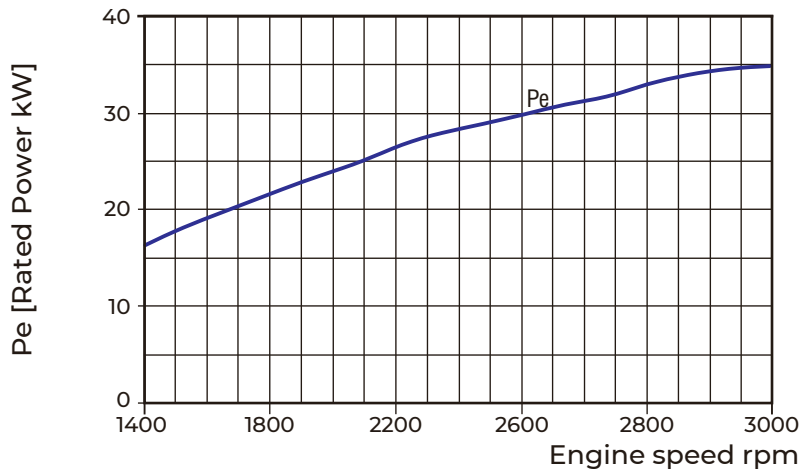
SCOPE OF SUPPLY:

Radiator, 12 or 24V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

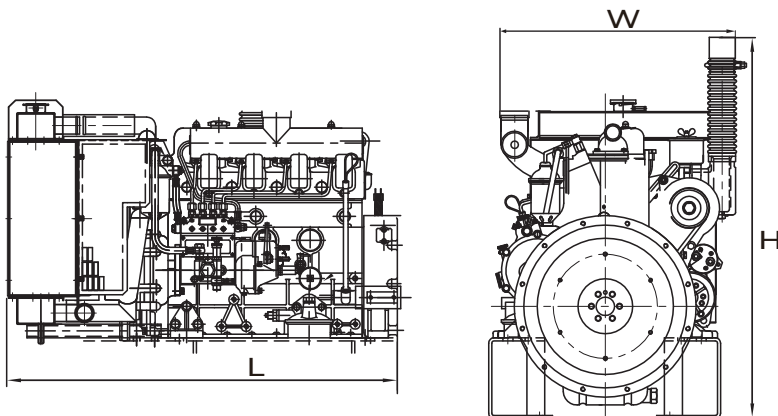
MK4H47H

35kW@3000 RPM



SPECIFICATION

Engine Model	MK4H47H
Aspiration	Natural
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	90x100
Displacement(L)	2.55
Compression ratio	18:1
Rated power (KW)	35
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	265
12h Fuel flowmeter (L/h)	11.1
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	
Net Weight (kg)	230
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	90/105
Dimensions	735x585x637



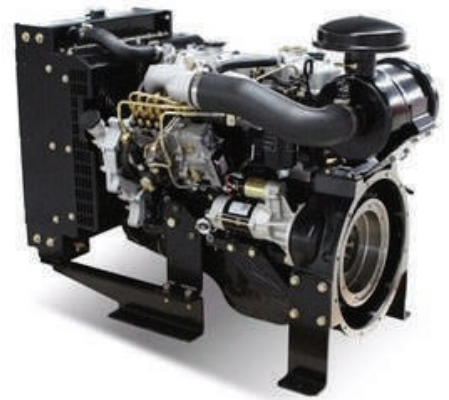
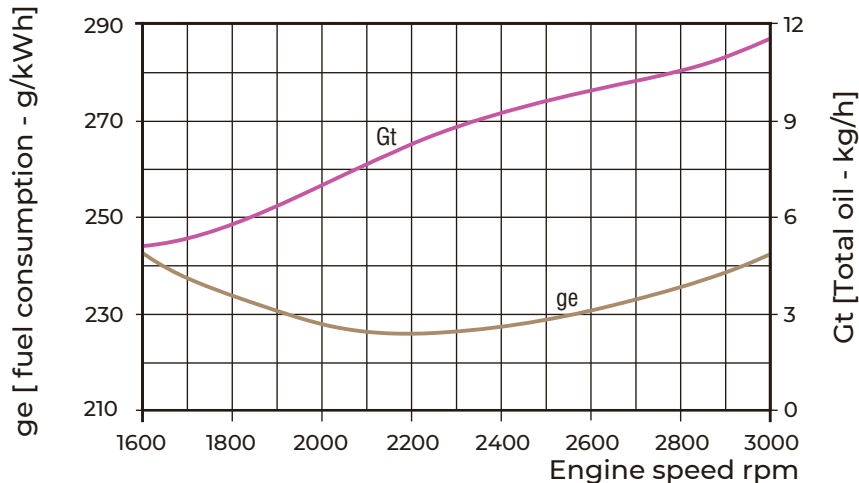
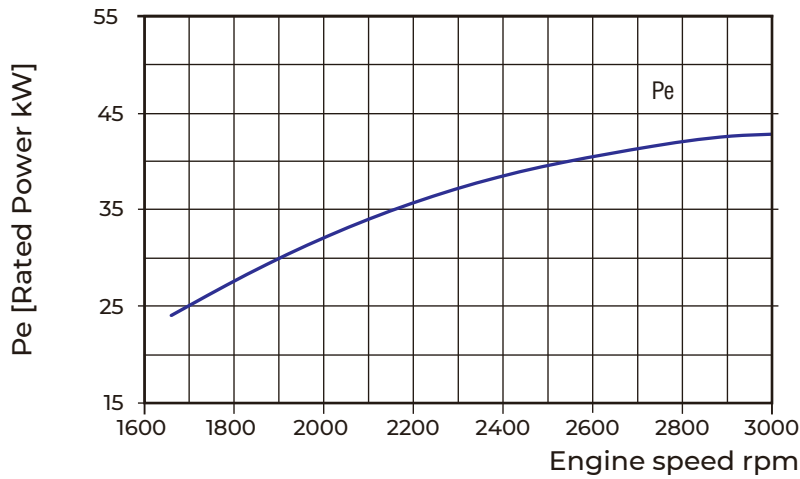
SCOPE OF SUPPLY:

Radiator, 12 or 24V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

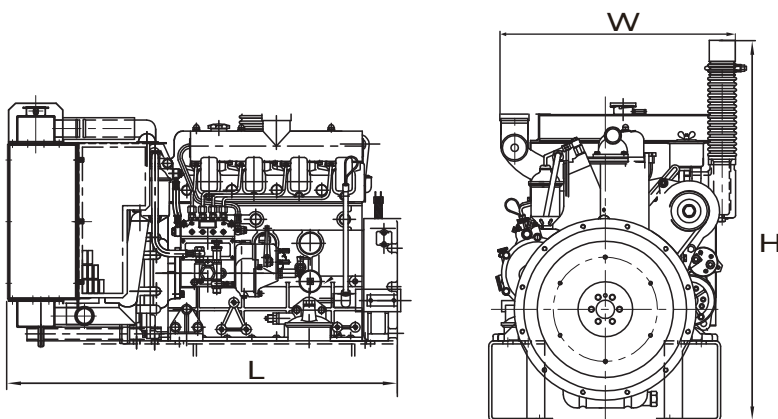
MK4H56H

42kW@3000 RPM



SPECIFICATION

Engine Model	MK4H56H
Aspiration	Natural
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	90x100
Displacement(L)	2.55
Compression ratio	18:1
Rated power (KW)	42
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	260
12h Fuel flowmeter (L/h)	13.1
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	
Net Weight (kg)	230
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	90/105
Dimensions	735x585x637



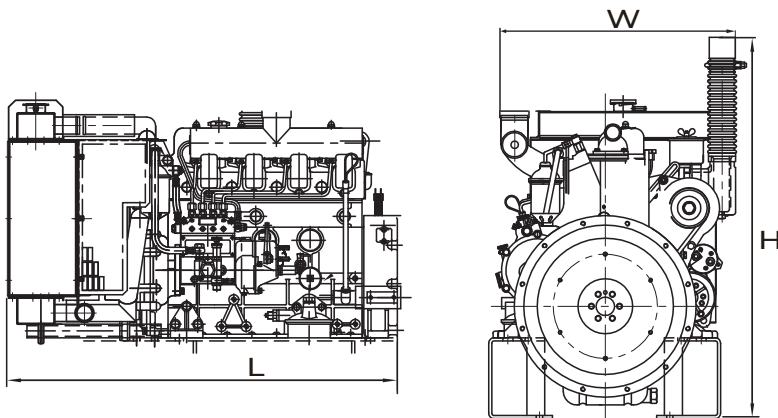
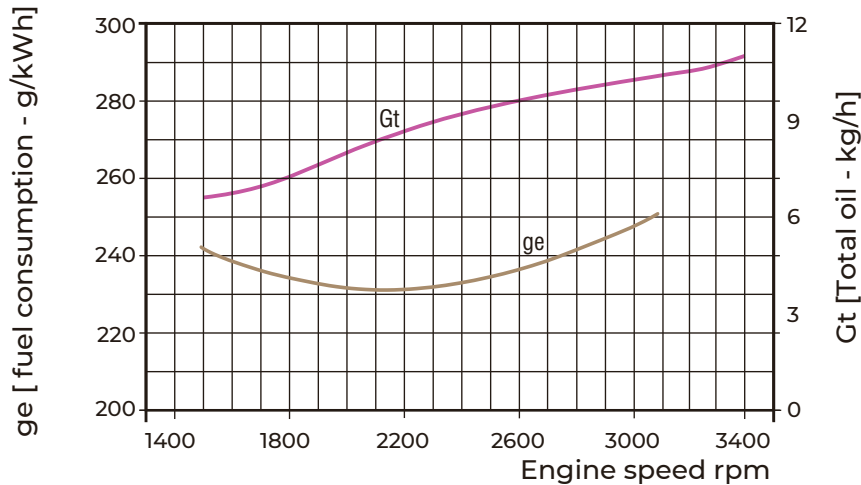
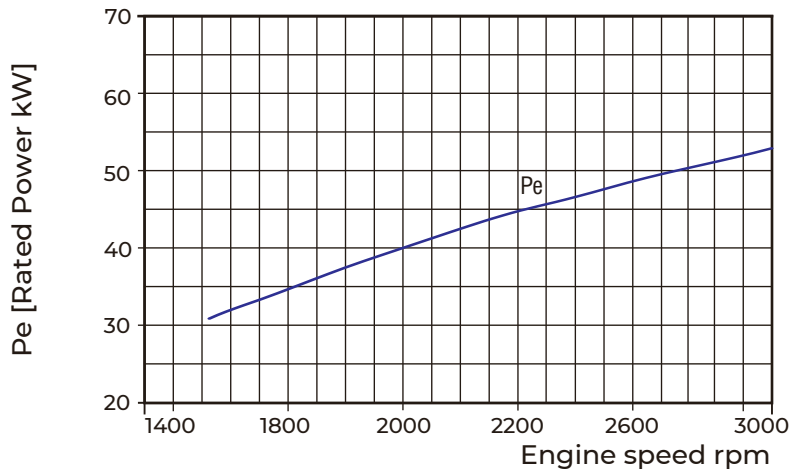
SCOPE OF SUPPLY:

Radiator, 12 or 24V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

MK4H69H

52kW@3000 RPM



SPECIFICATION

Engine Model	MK4H69H
Aspiration	Turbocharged
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	93x102
Displacement(L)	2.77
Compression ratio	18:1
Rated power (KW)	52
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	245
12h Fuel flowmeter (L/h)	17.0
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	270
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	90/105
Dimensions	735x585x637

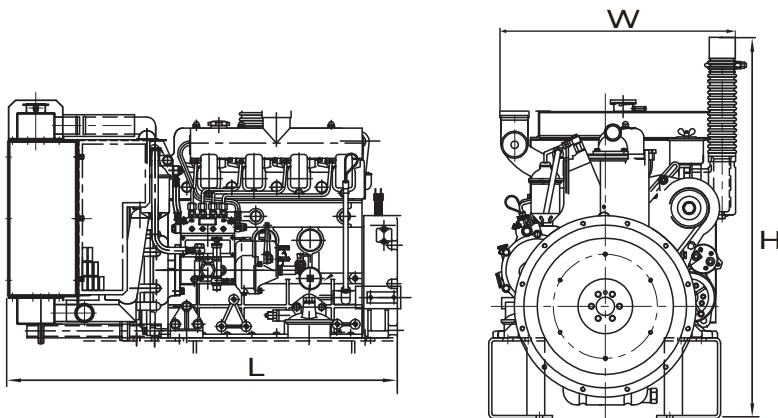
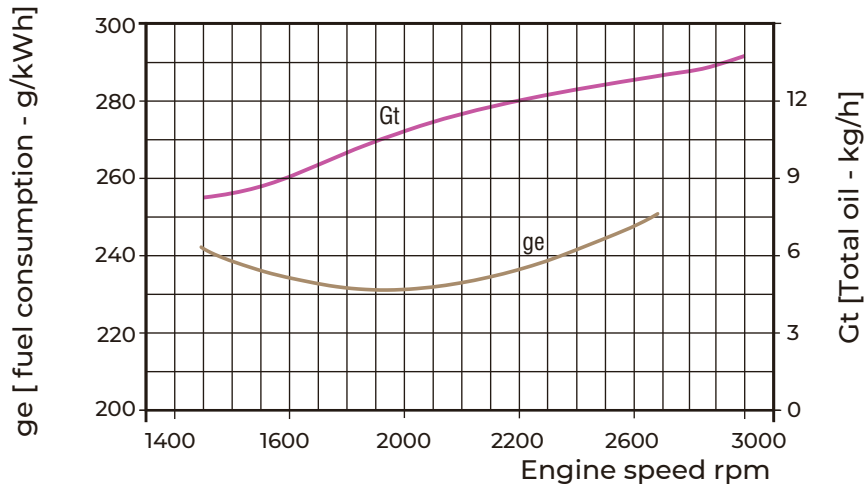
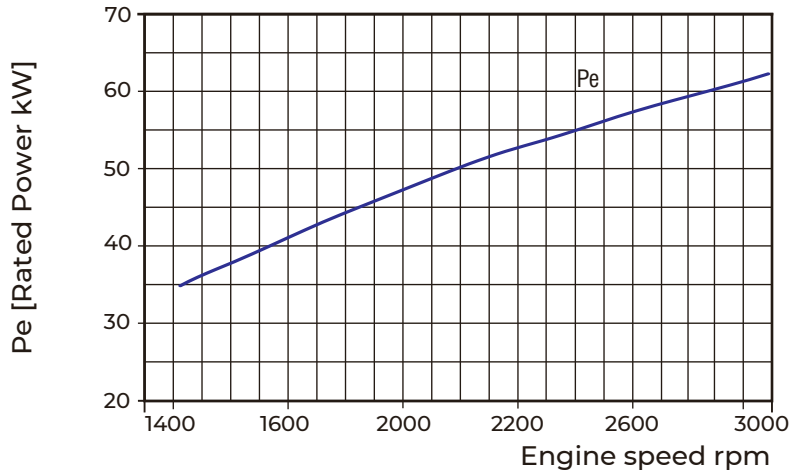
SCOPE OF SUPPLY:

Radiator, 12 or 24V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

MK4H83H

62kW@3000 RPM



SPECIFICATION

Engine Model	MK4H83H
Aspiration	Turbocharged
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	93x102
Displacement(L)	2.77
Compression ratio	18:1
Rated power (KW)	62
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	245
12h Fuel flowmeter (L/h)	17.0
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	270
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	90/105
Dimensions	735x585x637

SCOPE OF SUPPLY:

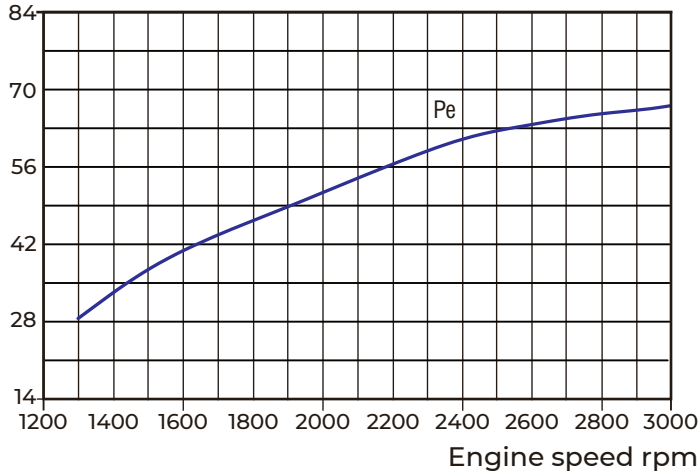
Radiator, 12 or 24V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

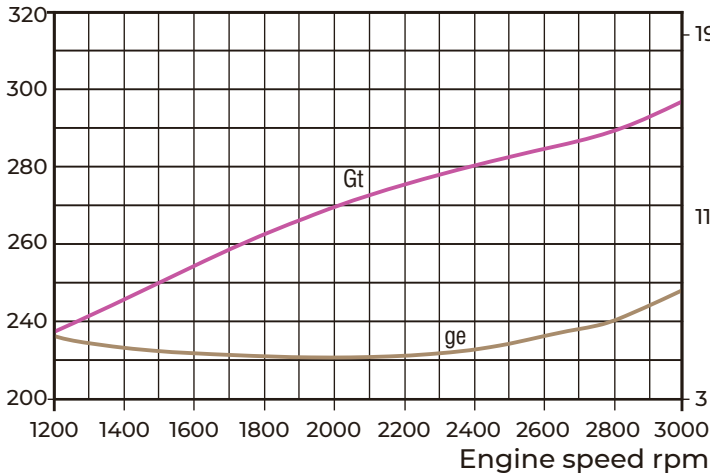
MK4H88H

66kW@3000 RPM

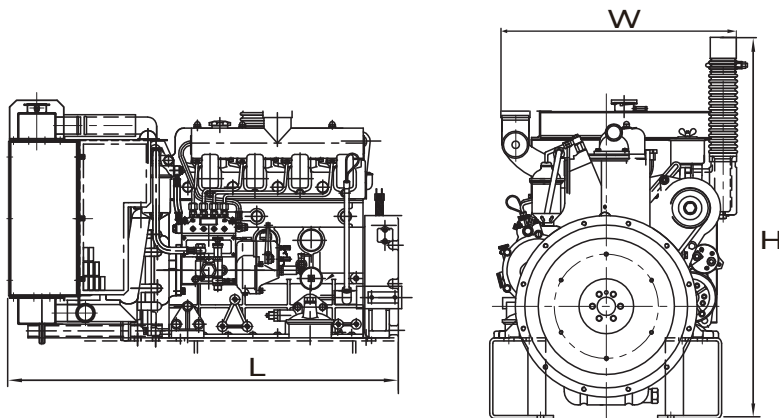
Pe [Rated Power kW]



ge [fuel consumption - g/kWh]



Gt [Total oil - kg/h]



SPECIFICATION

Engine Model	MK4H88H
Aspiration	Turbocharged
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	93x102
Displacement(L)	2.27
Compression ratio	17.5:1
Rated power (KW)	66
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	245
12h Fuel flowmeter (L/h)	19.4
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	290
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	90/105
Dimensions	825×623×788

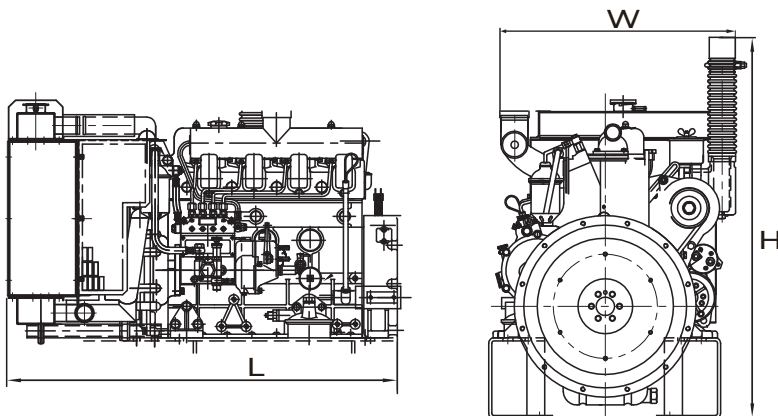
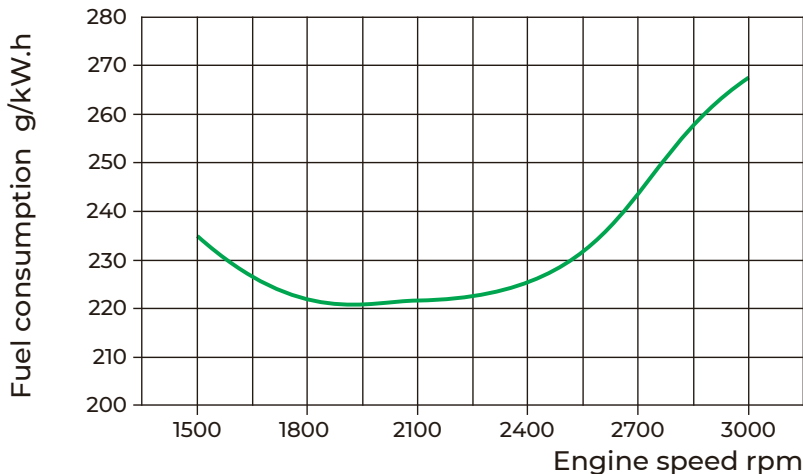
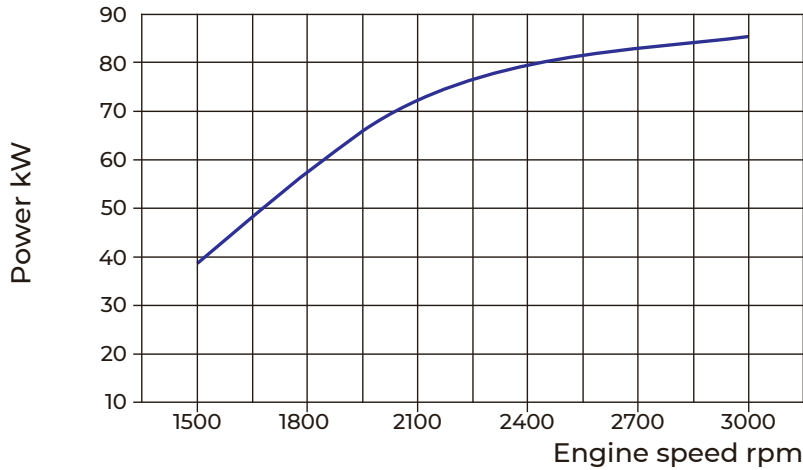
SCOPE OF SUPPLY:

Radiator, 12 or 24V starter motor, Engine shaft / Control panel: Customer's request.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

MK4H114H

85kW@3000 RPM



SPECIFICATION

Engine Model	MK4H114H
Aspiration	Turbocharged
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	102x115
Displacement(L)	3.76
Compression ratio	17.5:1
Rated power (KW)	85
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	250
12h Fuel flowmeter (L/h)	26.9
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	350
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	105/120
Dimensions	825×623×788

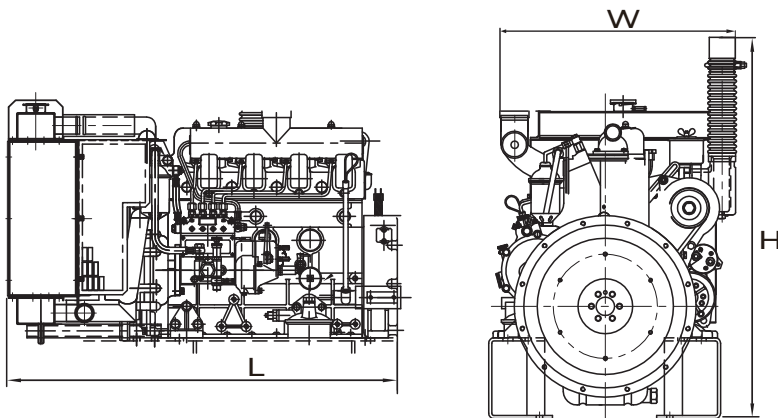
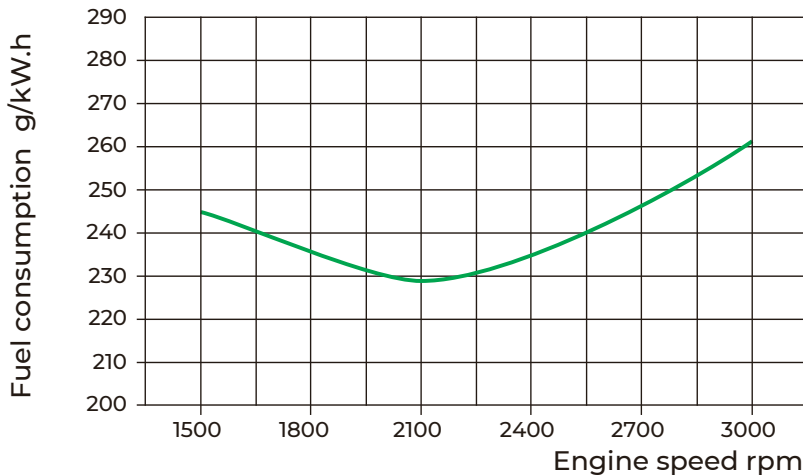
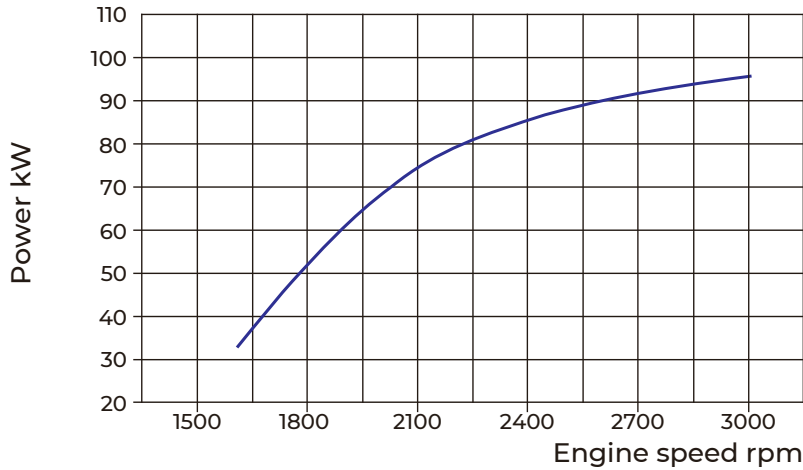
SCOPE OF SUPPLY:

Water cooling, 24V starter motor, Engine shaft, filter(air filter, fuel filter & oil filter), Standard muffler, starter solenoid, sensor, engine instrument control panel C/W "Auto/Manual" selector switch, stop emergency button, hourmeter, oil pressure gauge, water temperature gauge, and battery charging light, stop solenoid valve, operation manual, engine foot.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

MK4H127H

95kW@3000 RPM



SPECIFICATION

Engine Model	MK4H127H
Aspiration	Turbocharged
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	102x115
Displacement(L)	3.76
Compression ratio	17.5:1
Rated power (KW)	95
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	250
12h Fuel flowmeter (L/h)	27
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	350
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	105/120
Dimensions	825×623×788

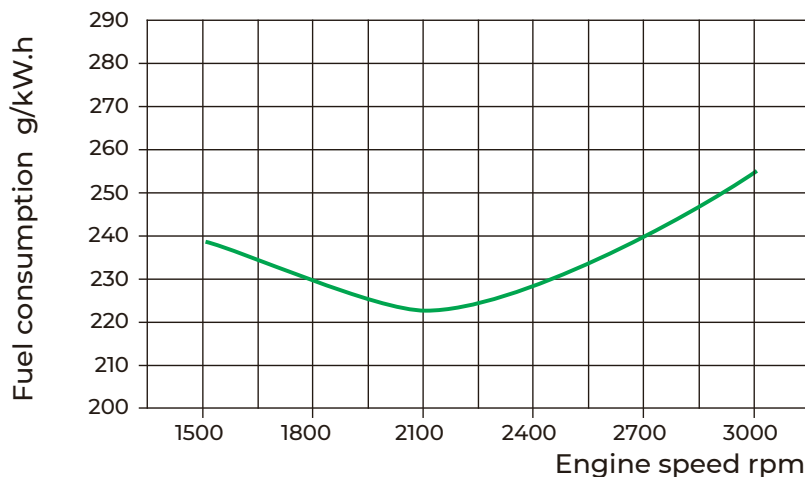
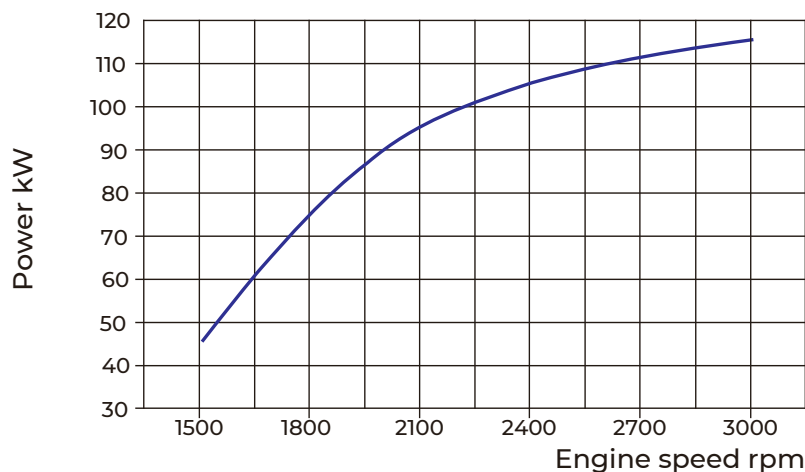
SCOPE OF SUPPLY:

Water cooling, 24V starter motor, Engine shaft, filter(air filter, fuel filter & oil filter), Standard muffler, starter solenoid, sensor, engine instrument control panel C/W "Auto/Manual" selector switch, stop emergency button, hourmeter, oil pressure gauge, water temperature gauge, and battery charging light, stop solenoid valve, operation manual, engine foot.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

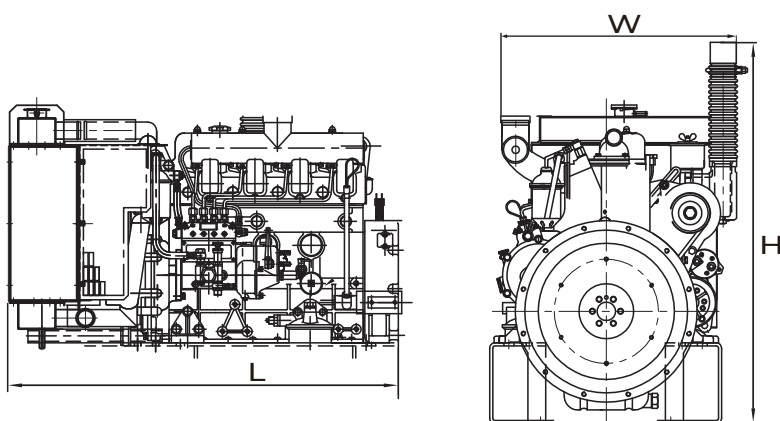
MK4H155H

116kW@3000 RPM



SPECIFICATION

Engine Model	MK4H155H
Aspiration	Turbocharged
Governor	Mechanical
Cylinder number	4
Bore x Stroke (mm)	108x118
Displacement(L)	4.32
Compression ratio	17.5:1
Rated power (KW)	116
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	255
12h Fuel flowmeter (L/h)	30.5
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	350
Oil Volume (L)	8
Oil consumption g/kW.h	≤2
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	120/135
Dimensions	825×623×788



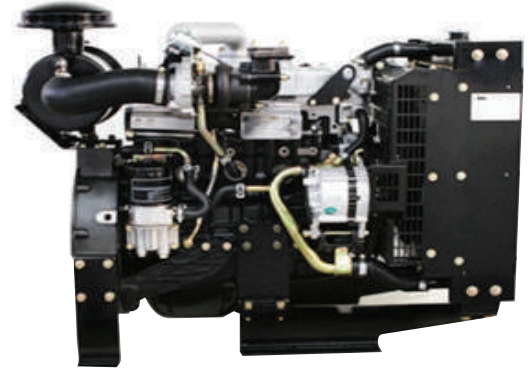
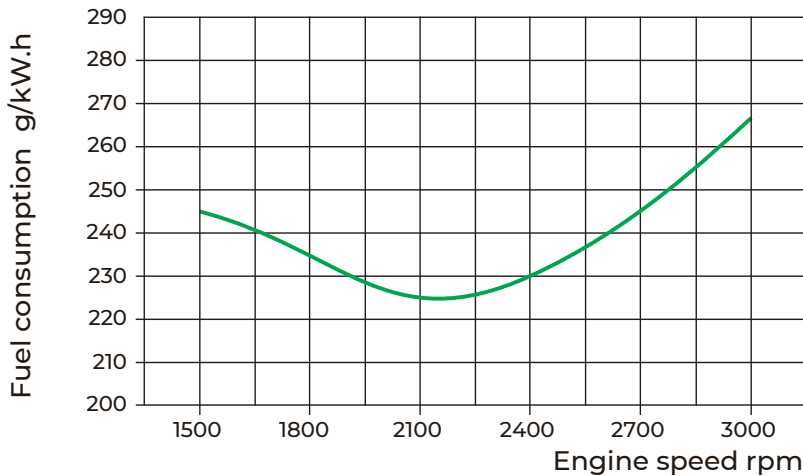
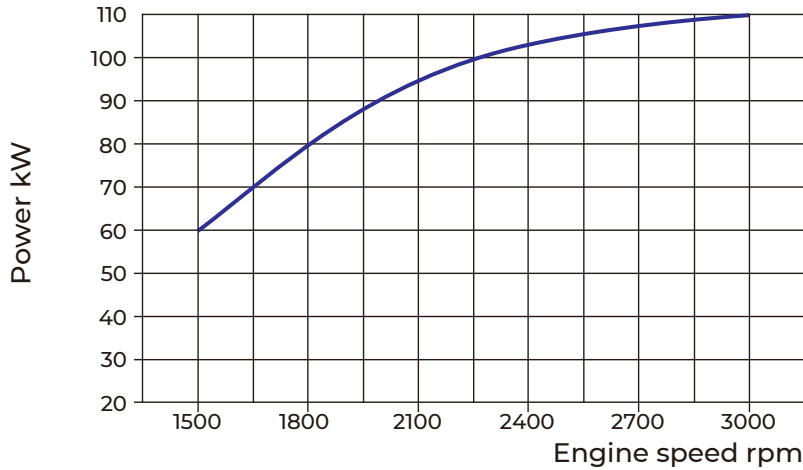
SCOPE OF SUPPLY:

Water cooling, 24V starter motor, Engine shaft, filter(air filter, fuel filter & oil filter), Standard muffler, starter solenoid, sensor, engine instrument control panel C/W "Auto/Manual" selector switch, stop emergency button, hourmeter, oil pressure gauge, water temperature gauge, and battery charging light, stop solenoid valve, operation manual, engine foot.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 4 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

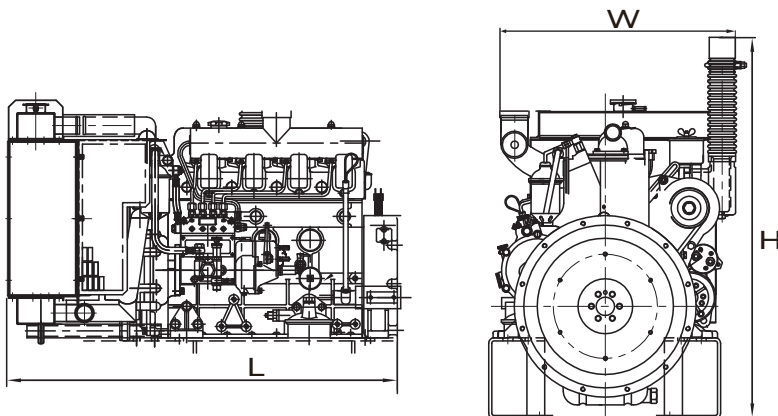
MK6H147H

110kW@3000 RPM



SPECIFICATION

Engine Model	MK6H147H
Aspiration	Turbocharged Inter-Cooling
Governor	Mechanical
Cylinder number	6
Bore x Stroke (mm)	102x118
Displacement(L)	5.78
Compression ratio	17:1
Rated power (KW)	110
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	210
12h Fuel flowmeter (L/h)	32.2
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	580
Oil Volume (L)	10
Oil consumption g/kW.h	≤2.5
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	150
Dimensions	1210×662×885



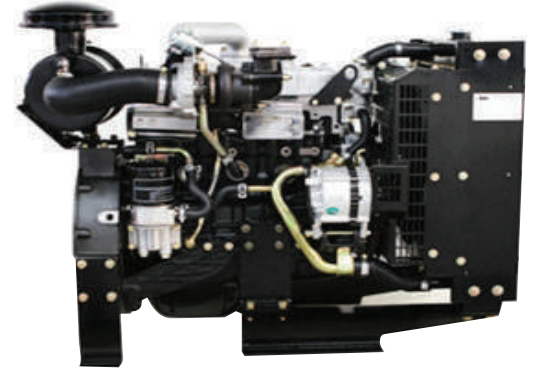
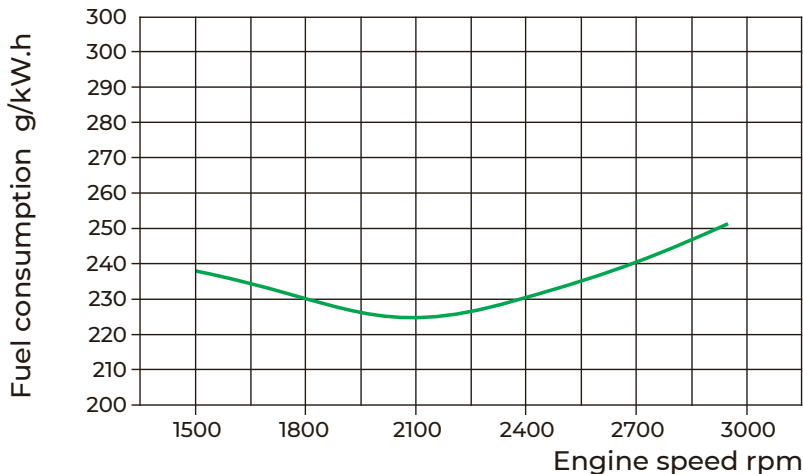
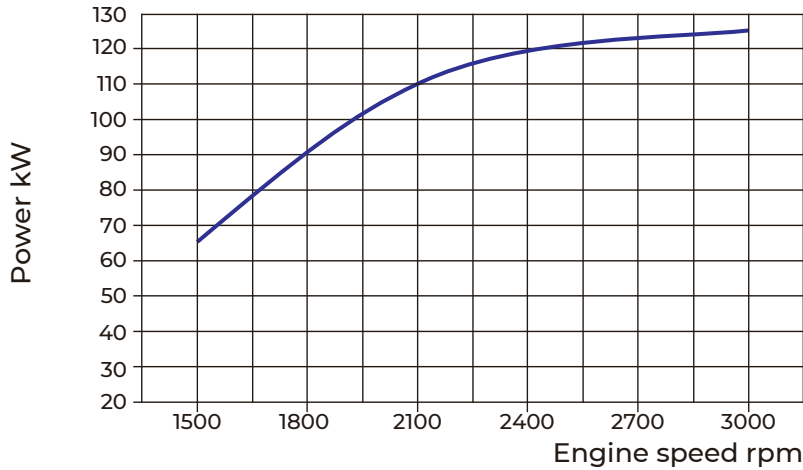
SCOPE OF SUPPLY:

Water cooling, 24V starter motor, Engine shaft, filter(air filter, fuel filter & oil filter), Standard muffler, starter solenoid, sensor, engine instrument control panel C/W "Auto/Manual" selector switch, stop emergency button, hourmeter, oil pressure gauge, water temperature gauge, and battery charging light, stop solenoid valve, operation manual, engine foot.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 6 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

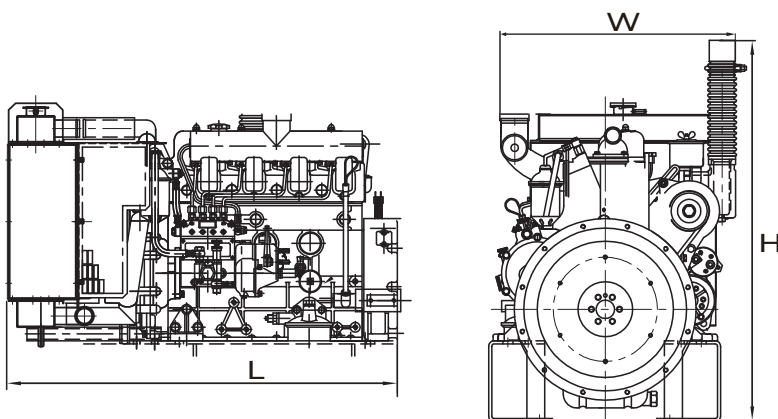
MK6H167H

125kW@3000 RPM



SPECIFICATION

Engine Model	MK6H167H
Aspiration	Turbocharged Inter-Cooling
Governor	Mechanical
Cylinder number	6
Bore x Stroke (mm)	102x118
Displacement(L)	5.8
Compression ratio	17:1
Rated power (KW)	125
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	250
12h Fuel flowmeter (L/h)	33.2
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	580
Oil Volume (L)	10
Oil consumption g/kW.h	≤2.5
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	150
Dimensions	1210×662×885



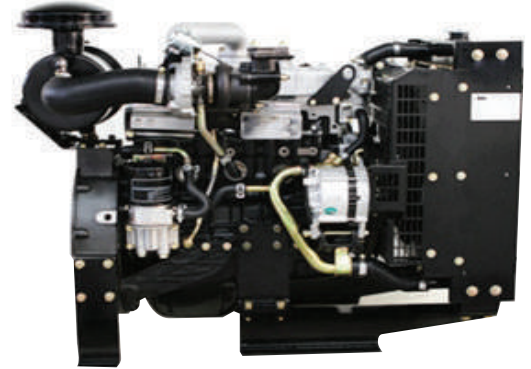
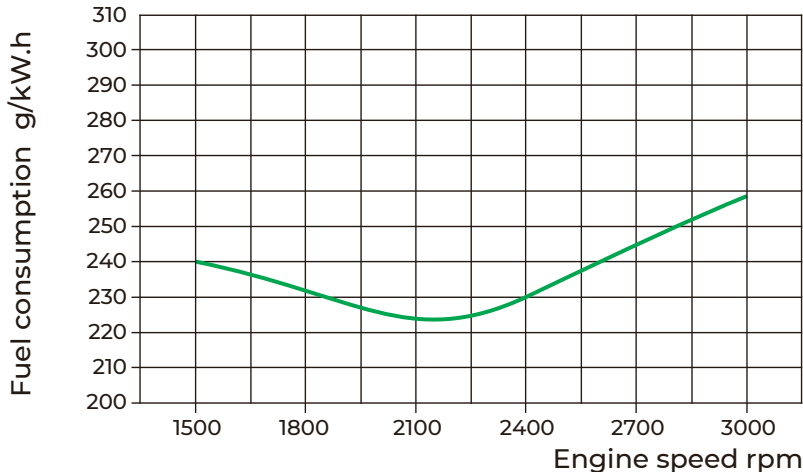
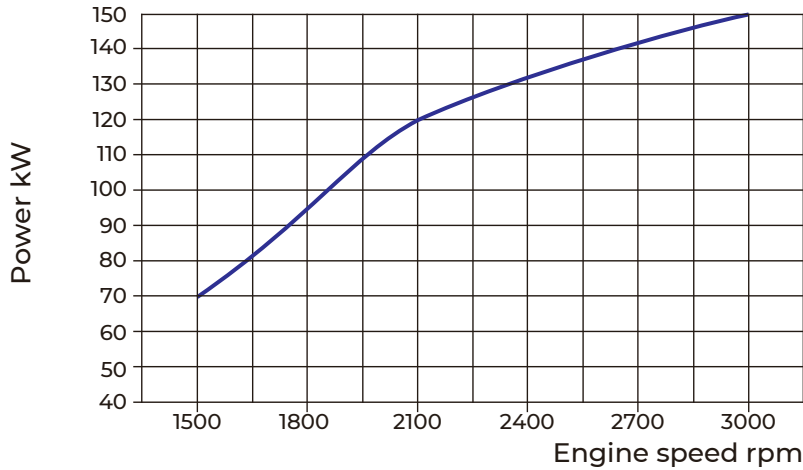
SCOPE OF SUPPLY:

Water cooling, 24V starter motor, Engine shaft, filter(air filter, fuel filter & oil filter), Standard muffler, starter solenoid, sensor, engine instrument control panel C/W "Auto/Manual" selector switch, stop emergency button, hourmeter, oil pressure gauge, water temperature gauge, and battery charging light, stop solenoid valve, operation manual, engine foot.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 6 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

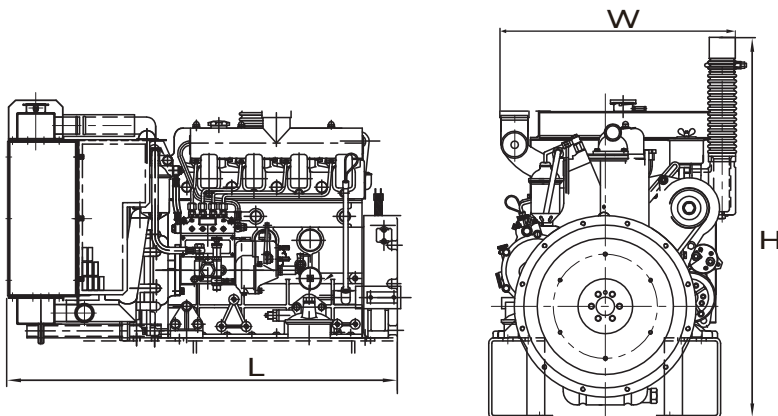
MK6H200H

150kW@3000 RPM



SPECIFICATION

Engine Model	MK6H200H
Aspiration	Turbocharged Inter-Cooling
Governor	Mechanical
Cylinder number	6
Bore x Stroke (mm)	105x118
Displacement(L)	6.27
Compression ratio	17:1
Rated power (KW)	150
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	258
12h Fuel flowmeter (L/h)	34.5
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	600
Oil Volume (L)	12
Oil consumption g/kW.h	≤3
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	150
Dimensions	1250×680×925



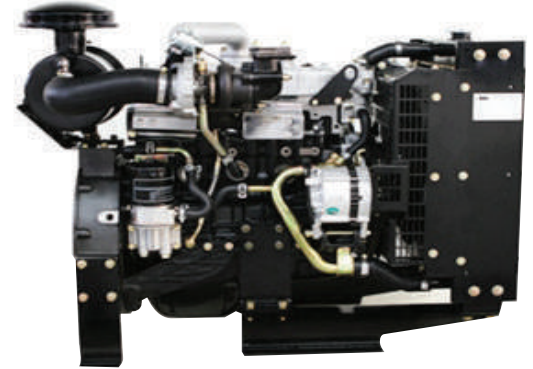
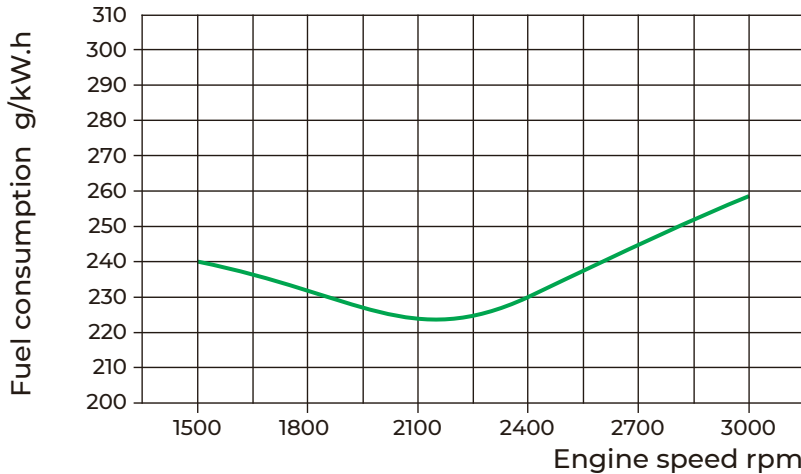
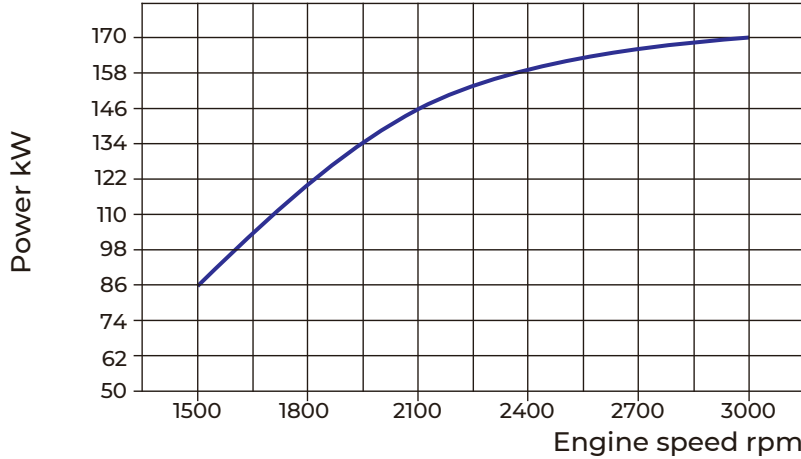
SCOPE OF SUPPLY:

Water cooling, 24V starter motor, Engine shaft, filter(air filter, fuel filter & oil filter), Standard muffler, starter solenoid, sensor, engine instrument control panel C/W "Auto/Manual" selector switch, stop emergency button, hourmeter, oil pressure gauge, water temperature gauge, and battery charging light, stop solenoid valve, operation manual, engine foot.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 6 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

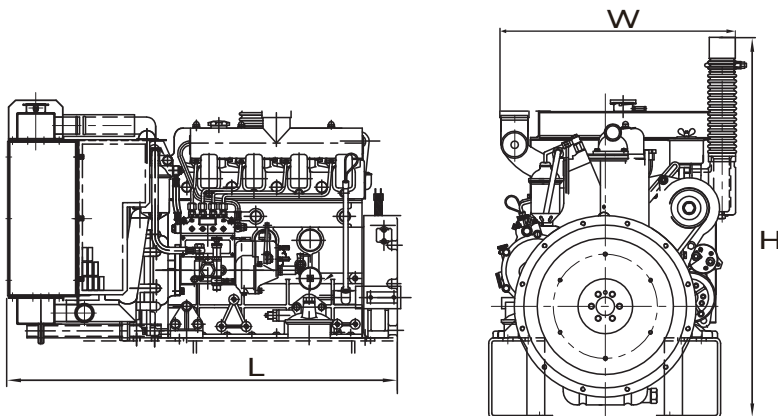
MK6H226H

170kW@3000 RPM



SPECIFICATION

Engine Model	MK6H226H
Aspiration	Turbocharged Inter-Cooling
Governor	Mechanical
Cylinder number	6
Bore x Stroke (mm)	105x118
Displacement(L)	6.58
Compression ratio	17:1
Rated power (KW)	170
Speed (r/min)	3000
Maximum idle speed (r/min)	≤3150
Minimum no-load stable speed (r/min)	800~850
Fuel consumption (g/kW.h)	258
12h Fuel flowmeter (L/h)	38
Crankshaft rotation direction (facing the flywheel)	Counter-clockwise direction
Cooling system	Water cooling
Lubricating system	Combined Pressure & Splashing
Net Weight (kg)	600
Oil Volume (L)	12
Oil consumption g/kW.h	≤3
Starting Type	12V-DC
Battery capacity (Ah): Starting without load / Starting with load	150
Dimensions	1250×680×925



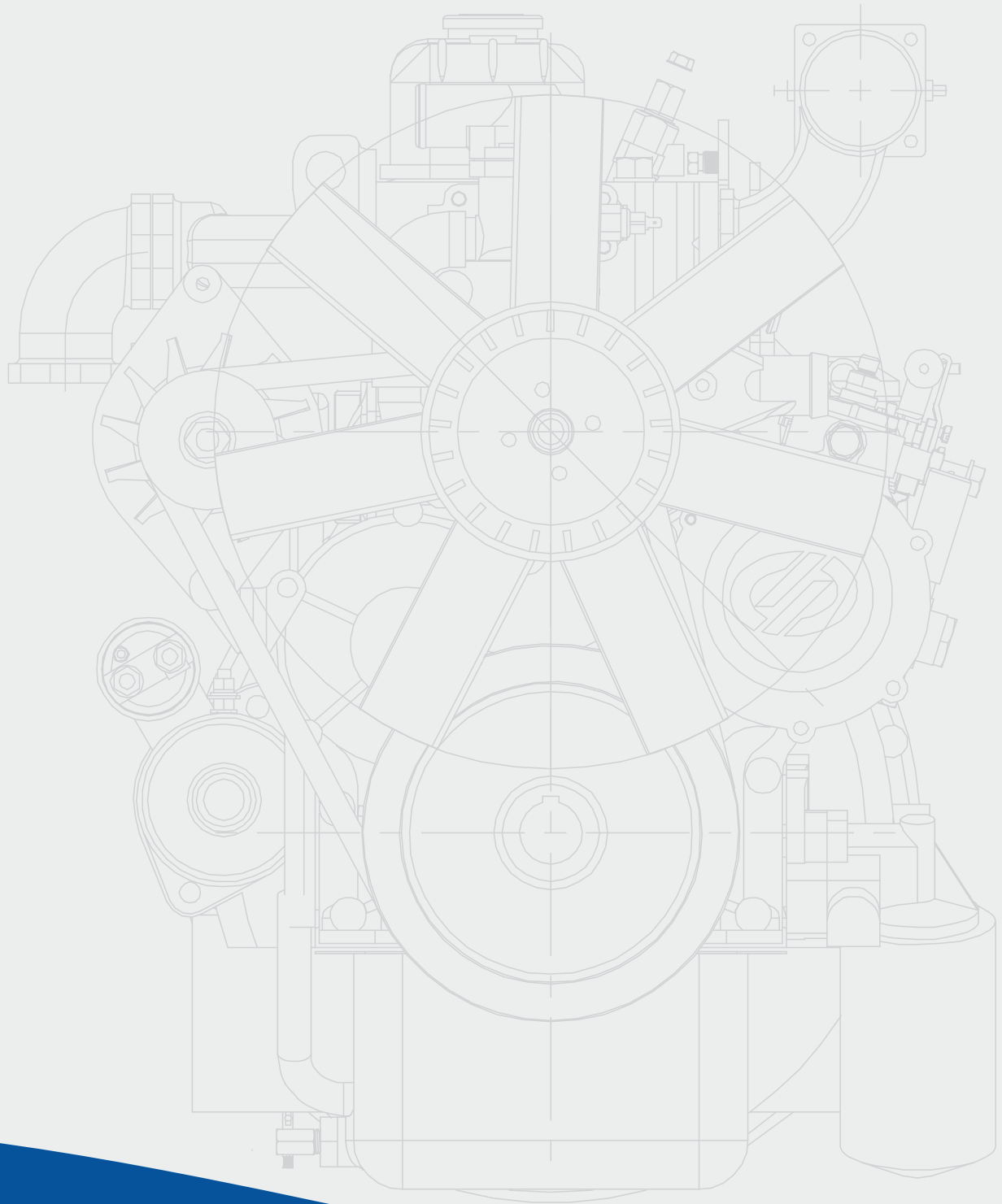
SCOPE OF SUPPLY:

Water cooling, 24V starter motor, Engine shaft, filter(air filter, fuel filter & oil filter), Standard muffler, starter solenoid, sensor, engine instrument control panel C/W "Auto/Manual" selector switch, stop emergency button, hourmeter, oil pressure gauge, water temperature gauge, and battery charging light, stop solenoid valve, operation manual, engine foot.

These engines have improved performance and combustion efficiency. The characteristics such as high torque and heavy duty construction makes these engines a right choice for fire fighting applications. Engines series comprises of 6 cylinder 4 stroke compression ignition type engines. These engines are subjected to rigorous performance tests prior to the dispatch to ensure that the performance ratings are achieved as required by the design specifications.

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