

1200 Series E70 TAG1M Marine Auxiliary Engine

109 kW (146 hp) @ 1500 rpm

Based on Perkins universally acclaimed 1206 Series and renowned throughout the power generation industry for its superior performance and reliability. The Perkins® E70M is a turbocharged, charge air-cooled, six cylinder, seven litre engine, one of a family of engines ranging from 120 to 240 kWm @110% load (see rating definition).

Operator and environmentally friendly with low noise, rapid startability and low emissions.

Competitive engine and parts pricing, extended service intervals and exceptionally low fuel consumption make the E70M a cost effective choice with significant owner savings over alternative engines.

You can expect unbeatable expertise and friendly service from Perkins.

Emissions

EPA Tier 3, IMO 2, CCNR Stage 2.

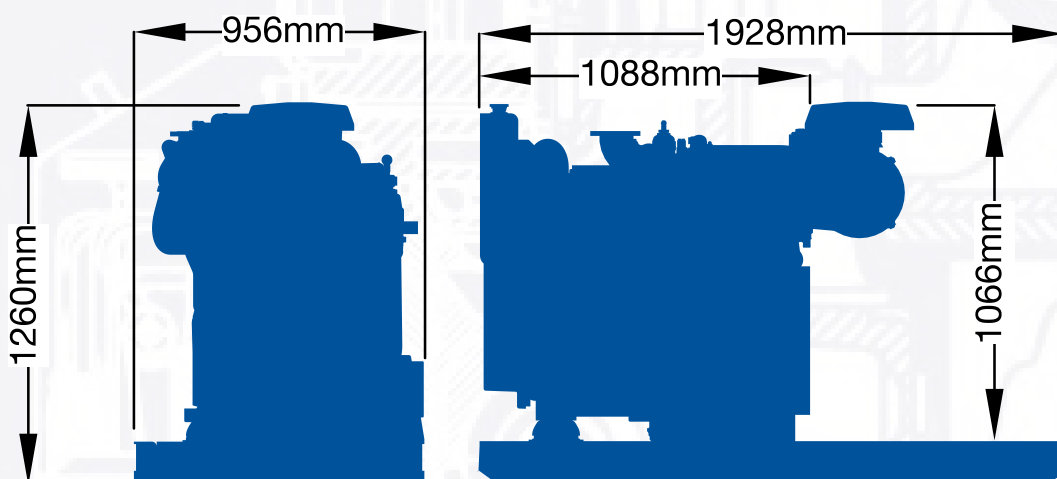


Specification

Number of cylinders	6 vertical in-line	
Bore and stroke	105 x 135 mm	4.1 x 5.3 in
Displacement	7 litres	427 in3
Aspiration	Turbocharged, air to water cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	21 litres	5.5 US gal
Cooling system	Water cooled	
Total coolant capacity	38 litres	10 US gal

1200 Series E70 TAG1M Marine Auxiliary Engine

109 kW (146 hp) @ 1500 rpm



Engine package weights and dimensions

Length	1928 mm	76 in
Width	956 mm	38 in
Height	1260 mm	50 in
Weight (dry)	1157 kg	2551 lb

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1500	Prime power	125.0	100	109	146	109	146
	110%	137.5	110	120	161	120	161

Rating definitions

Prime power: Power for continuous service. Overload of 10% is permitted for 1 hour in every 12 hours' operation.

For further details on definitions please contact your local Perkins distributor.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
100% power	229.4	29.8
110% power	218.3	31.2

These ratings represent the performance capabilities to conditions specified in ISO 3046/1:1995.

Test Conditions Air temperature 25°C (80°F) barometric pressure 100 kPa (29.5 in Hg), relative humidity 30%, maximum exhaust back pressure 15 kPa, maximum inlet restriction 5 kPa.

For operation outside of these conditions please consult your Perkins contact. Performance tolerance quoted by Perkins is $\pm 5\%$.

Electrical ratings assume a power factor of 0.8 and a generator efficiency of 93%.

1200 Series E70 TAG2M Marine Auxiliary Engine

129 kW (173 hp) @ 1500 rpm

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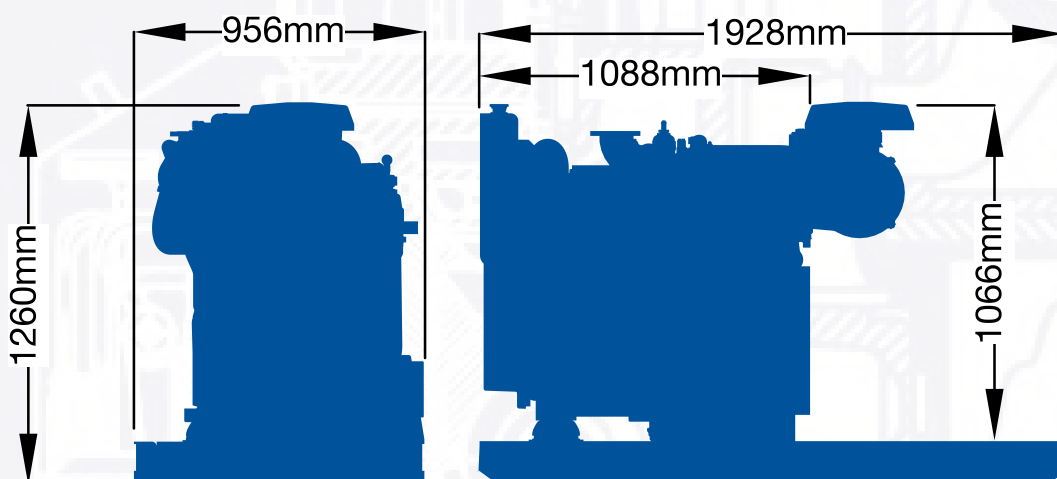
EPA Tier 3, IMO 2, CCNR Stage 2.



Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	105 x 135 mm	4.1 x 5.3 in
Displacement	7 litres	427 in ³
Aspiration	Turbocharged, air to water cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	21 litres	5.5 US gal
Cooling system	Water cooled	
Total coolant capacity	38 litres	10 US gal

1200 Series E70 TAG2M Marine Auxiliary Engine

129 kW (173 hp) @ 1500 rpm



Engine package weights and dimensions

Length	1928 mm	76 in
Width	956 mm	38 in
Height	1260 mm	50 in
Weight (dry)	1157 kg	2551 lb

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1500	Prime power	147.5	118	129	173	129	173
	110%	161.3	129	142	190	142	190

Rating definitions

Prime power: Power for continuous service. Overload of 10% is permitted for 1 hour in every 12 hours' operation.

For further details on definitions please contact your local Perkins distributor.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
100% power	228.3	35.1
110% power	212.7	36.0

These ratings represent the performance capabilities to conditions specified in ISO 3046/1:1995.

Test Conditions Air temperature 25°C (80°F) barometric pressure 100 kPa (29.5 in Hg), relative humidity 30%, maximum exhaust back pressure 15 kPa, maximum inlet restriction 5 kPa.

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1200 Series E70 TAG3M Marine Auxiliary Engine

164 kW (220 hp) @ 1500 rpm

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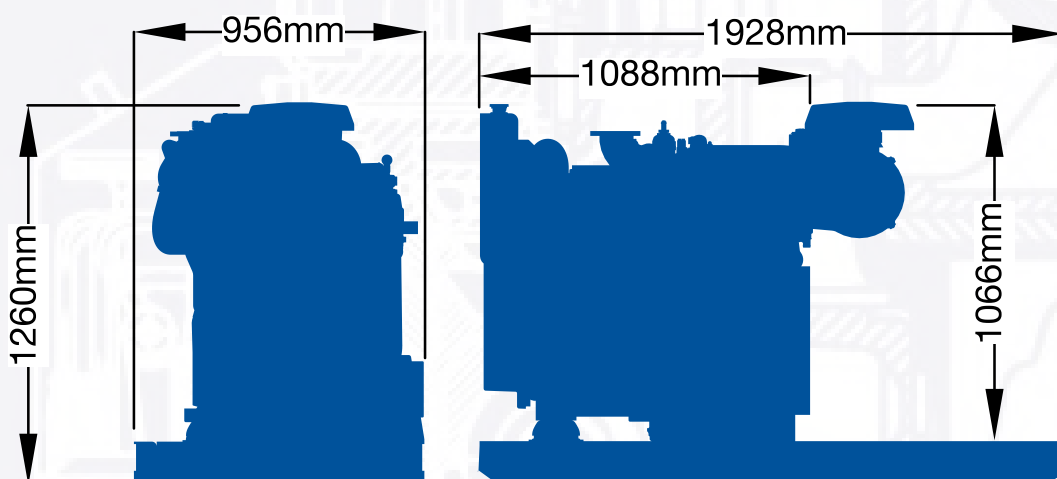
EPA Tier 3, IMO 2, CCNR Stage 2.



Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	105 x 135 mm	4.1 x 5.3 in
Displacement	7 litres	427 in ³
Aspiration	Turbocharged, air to water cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	21 litres	5.5 US gal
Cooling system	Water cooled	
Total coolant capacity	38 litres	10 US gal

1200 Series E70 TAG3M Marine Auxiliary Engine

164 kW (220 hp) @ 1500 rpm



Engine package weights and dimensions

Length	1928 mm	76 in
Width	956 mm	38 in
Height	1260 mm	50 in
Weight (dry)	1157 kg	2551 lb

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1500	Prime power	187.5	150	164	220	164	220
	110%	205.0	164	180	241	180	241

Rating definitions

Prime power: Power for continuous service. Overload of 10% is permitted for 1 hour in every 12 hours' operation.

For further details on definitions please contact your local Perkins distributor.

Percent of prime power	Fuel consumption at 1500 rpm g/kWh	Fuel consumption at 1500 rpm l/hr
100% power	216.4	42.3
110% power	202.7	43.5

These ratings represent the performance capabilities to conditions specified in ISO 3046/1:1995.

Test Conditions Air temperature 25°C (80°F) barometric pressure 100 kPa (29.5 in Hg), relative humidity 30%, maximum exhaust back pressure 15 kPa, maximum inlet restriction 5 kPa.

For operation outside of these conditions please consult your Perkins contact. Performance tolerance quoted by Perkins is $\pm 5\%$.

Electrical ratings assume a power factor of 0.8 and a generator efficiency of 93%.

1200 Series E70 TAG4M Marine Auxiliary Engine

218 kW (292 hp) @ 1800 rpm

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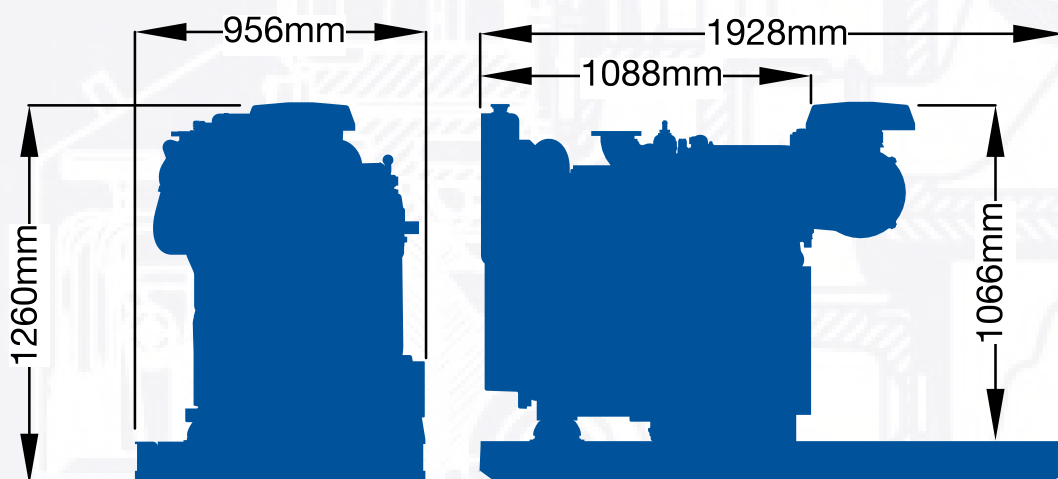
EPA Tier 3, IMO 2, CCNR Stage 2.



Specification		
Number of cylinders	6 vertical in-line	
Bore and stroke	105 x 135 mm	4.1 x 5.3 in
Displacement	7 litres	427 in ³
Aspiration	Turbocharged, air to water cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	21 litres	5.5 US gal
Cooling system	Water cooled	
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1200 Series E70 TAG4M Marine Auxiliary Engine

218 kW (292 hp) @ 1800 rpm



Engine package weights and dimensions

Length	1928 mm	76 in
Width	956 mm	38 in
Height	1260 mm	50 in
Weight (dry)	1157 kg	2551 lb

Speed rpm	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kW	hp	kW	hp
1800	Prime power	250	200	218	292	218	292
	110%	275	220	240	322	240	322

Rating definitions

Prime power: Power for continuous service. Overload of 10% is permitted for 1 hour in every 12 hours' operation.

For further details on definitions please contact your local Perkins distributor.

Percent of prime power	Fuel consumption at 1800 rpm g/kWh	Fuel consumption at 1800 rpm l/hr
100% power	214	55.6
110% power	207.6	59.4

These ratings represent the performance capabilities to conditions specified in ISO 3046/1:1995.

Test Conditions Air temperature 25°C (80°F) barometric pressure 100 kPa (29.5 in Hg), relative humidity 30%, maximum exhaust back pressure 15 kPa, maximum inlet restriction 5 kPa.

For operation outside of these conditions please consult your Perkins contact. Performance tolerance quoted by Perkins is $\pm 5\%$.

Electrical ratings assume a power factor of 0.8 and a generator efficiency of 93%.