

DAEDONG KIOTI DIESEL ENGINE SERIES

DAEDONG Engine Series / Tier4-final Emission



World-Class DAEDONG KIOTI DIESEL ENGINE SERIES

Established in 1947, DAEDONG Industrial Co., Ltd. has been a leader in the mechanization of Korea since 1962, when it began producing single-cylinder diesel engines and installing them in cultivators, followed by the development and production of multicylinder diesel engines in 1964. Through continuous research and development as well as innovation, DAEDONG Industrial has independently developed world-class diesel engines while satisfying stricter emissions regulations in North America and Europe with its durable and high-quality engines which can be installed in a variety of vehicles or equipment. DAEDONG Industrial produces 16 ~ 85hp class engines which boast of high torque with low RPM, and have received certifications such as EPA, EC, CARB, ISO9001 and ISO14001.

DAEDONG Diesel Engine Technology

Using its outstanding technology to create products which satisfy every customer, DAEDONG Industrial has continuously striven for product enhancement and has received praise for its reliability in both international and domestic markets.

In 2013, DAEDONG obtained North American and European Tier4.final/Stage III B emission certification and has been exporting its products to countries around the globe.

The 19kW+ engine is fitted with an 1800bar electronically controlled high pressure direct injection fuel system for complete combustion, while driving conditions are optimized for a variety of external conditions with the ECU's learning function and active controls for optimal fuel injection.

Our engines are equipped with a variety of control system modes for functions such as precision control in the Cooled-EGR system for exhaust gas recirculation; a DPF system which completely blocks PM (diesel particulate matter) emissions; and filter regeneration. The less than 19kW engine for the North America market is renowned as a Clean Diesel engine with an NTE system which electronically controls fuel injection in order to prevent decreases in exhaust performance at high altitudes.

The Promise of DAEDONG

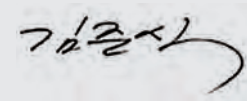
For the past 68 years, DAEDONG Industrial Co., Ltd. has tirelessly striven to provide its customers worldwide with competitive products and services.

In the future, we will continue to value the satisfaction of our customers and strive for excellence.

It is you, our valued customers, who have made DAEDONG's success so meaningful.

Thank you.

DAEDONG Company
CEO Kim Joon Sik



DAEDONG's History



1947
Founding of DAEDONG Industrial
(Jinju, Gyeongsangnam-do)



1956
Production of single-cylinder and
multicylinder diesel engines



1962
Production of the first diesel
cultivator in Korea



1968
Production of the first tractor
in Korea



1970
Production of the first combine
in Korea



1984
Completion of Daegu factory



1996
Simultaneously obtained ISO9001
and ISO14001 certification



2006
Introduced state-of-the-art automated
engine production facilities



2008
Production of Tier3 diesel engines /
Trade Day 100 Million Dollar
Export Tower award



2009
Production of the first UTV in Korea



2013
Production of the first Tier4. final
common rail engine in Korea



2013
Chosen as one of World Class 300
by Korean government



2014
Supply contract with Myanmar
government for USD 100 million
worth of agricultural machinery



2014
Trade Day USD 200 Million
Export Tower Award



2015
Official supplier for tractor of
PyeongChang 2018 Olympic Winter
Games

Engine 100 Years of Philosophy



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Chuzhou City, Anhui Province, China
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Daegu, Korea
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Kyunggi-Do, Korea
Tel : 82-31-673-5544
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www.hankuk.co.kr



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Sacheon-si, Gyeongsangnam-do, Korea
Tel : 82-55-851-2300, 2400
Fax : 82-55-852-6135
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SEOUL OFFICE

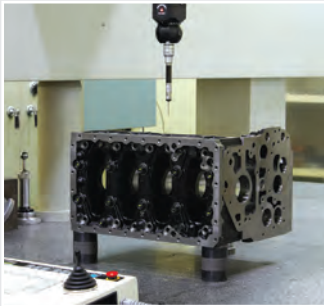
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MOVING THE WORLD WITH
DAEDONG

Excellent Quality Control

With its three-dimensional precision parts inspection, engine assembly inspection, engine output performance inspection and engine emissions tests, DAEDONG Industrial maintains high product quality standards and conducts thorough quality control inspections for every step in the manufacturing process, from the manufacturing of primary parts to the final engine assembly. We produce engines which satisfy the output performance and emission component regulations enforced in North America and Europe while conducting regular inspections and evaluations with our state-of-the-art testing equipment in the fields of production and product quality. Production records for primary engine parts are stored in a database in order to ensure the optimal quality of our products during the production process as well as while being used by customers.



Three-dimensional precision parts inspection



Engine assembly inspection



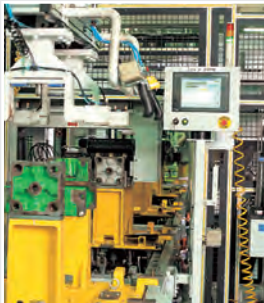
Engine output performance inspection



Engine emissions tests

A World-Class Production System

In 1964, DAEDONG Industrial produced the first single-cylinder diesel engine in Korea. Since 1983, DAEDONG has developed multicylinder engines using entirely its own technology and has been exporting them across the globe to places such as North America and Europe. With its 70 years of accumulated technical expertise, since 2012, DAEDONG Industrial has been producing state-of-the-art electronic common rail engines which have received sensationally favourable reviews in diesel engine markets around the world. In 2006, DAEDONG further reinforced its cutting edge automated facilities for production and assembly, resulting in even greater product quality and enhanced production capacity. At present, DAEDONG Industrial has a production capacity of 67,000 multicylinder engine units.



Cylinder block assembly process



RGV (Rail Guide Vehicle)



Cylinder head assembly process



Piston assembly process



Assembly robot

A Variety of Applications

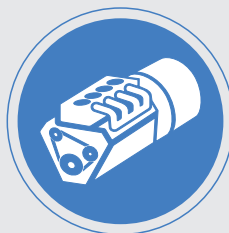
DAEDONG diesel engines produce high-performance output even at low speeds and are optimal for use in everything from industrial equipment, agricultural machinery and construction equipment to generators and ships. Our engines have received emissions regulation certification for every continent (Tier4.final/interim, Stage III B/A) and are optimized for high-load industrial uses with their high output and torque as well as superior durability compared to their weight. In addition, the high rate of part sharing between engines and a wide range of optional parts to choose from make the engines adaptable to a variety of equipment.



For construction equipment



For agricultural machinery



For generators



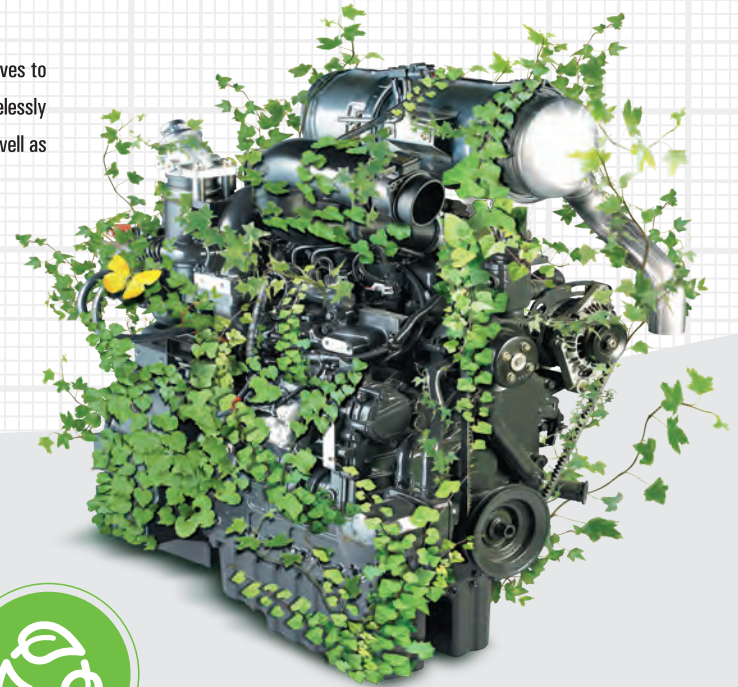
For ships



For industrial uses

Pursuing Technological Excellence

Human health and environmental cleanliness are a top priority for DAEDONG Industrial, which ceaselessly strives to develop low-noise, low-emissions and low-vibration environmentally-friendly engines. In addition, we tirelessly conduct research and produce customer-centered products in order to ensure convenience and ease of use as well as to create high value-added products for customers.



Tier 1 (1997)



Tier 2 (2004)



Tier 3 (2008)



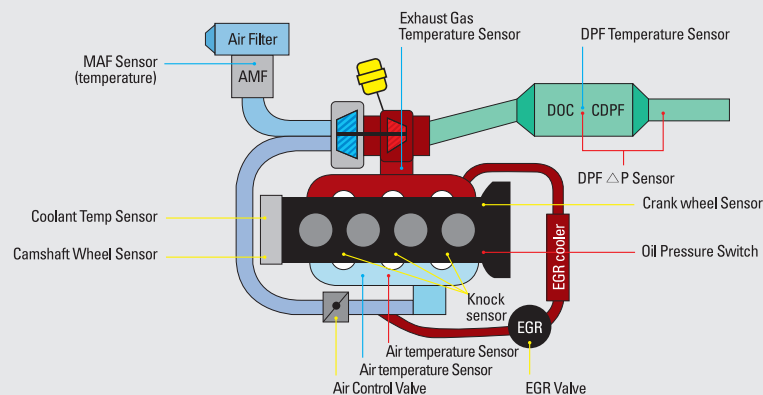
Tier 4 (2013)

DAEDONG KIOTI Tier4. final Engine

In 2012, DAEDONG Industrial completed development and began production of a clean diesel engine with an electronic common rail system whose 1,800bar high-pressure multi-phase direct injection and EGR system serve to enhance performance, increase fuel efficiency, and reduce noise and vibrations as well as emissions. The electronic ECU's optimal condition learning function works over time to ensure safety for operation and actively reacts to various external conditions. The DPF (Diesel Particulate Filter) completely blocks PM (particulate matter) emissions while the PM regeneration performed by the three-dimensional electronic control system maintains optimal driving conditions.

The electronic ECU is equipped with functions which switch to a driveable alternate mode and send a malfunction signal to the driver by performing self-diagnosis of signals and malfunctions in the various sensors and actuators.

Tier4 Engine Design



Water separator



Fuel filter



Fuel High pressure pump



DPF



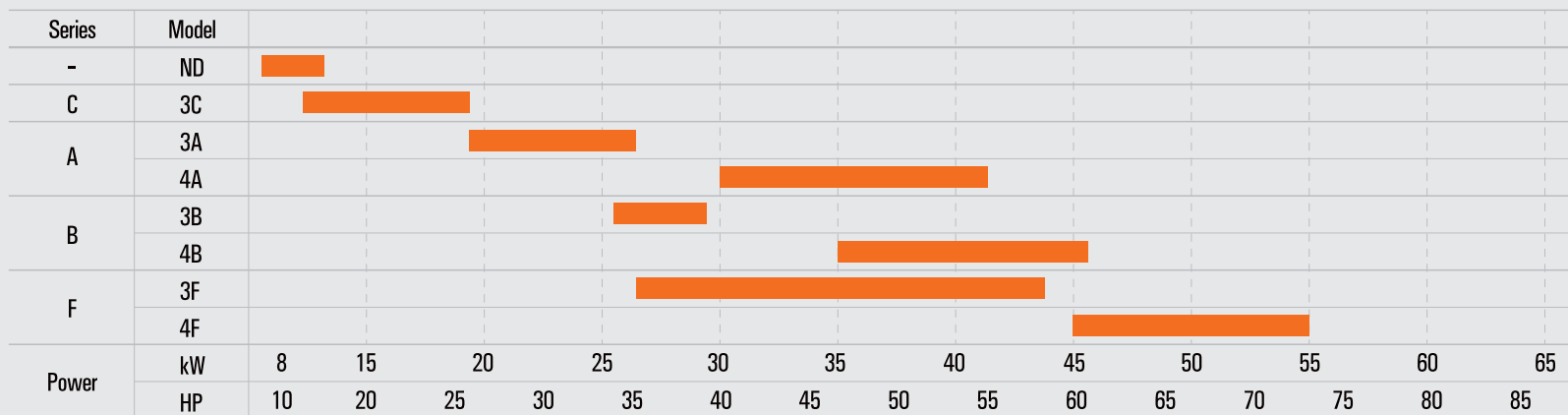
Rail



ecu

DAEDONG KIOTI Diesel Engine Series Introduction

Engine Output Range



1. Industrial Engine Lineup

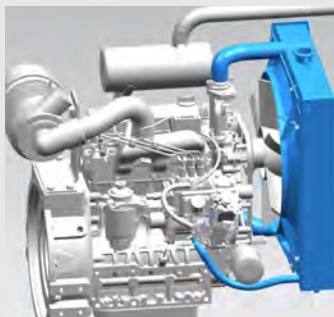
Model Name	Displacement(CC)	Aspiration System	Maximum output kW(hp)/rpm	Maximum torque Nm/rpm	Torque Ratio(%)	Applicable Technologies	Emission Regulations	Flywheel, Housing Standard	Weight(kg)
ND10DE	673	Naturally Aspirated	9.5(13)/2400	42/2000	-	Mechanical	Non	-	125
3C100	1,007	Naturally Aspirated	16.4(22)/2800 17.9(24)/3000	63.8/1900 63.7/2300	14.1 11.7	Mechanical Electronic Control	Tier4 Tier4.NTE	190mm(7-1/2"), SAE 5	101 (92) 100
3A139	1,393	Naturally Aspirated	17.9(24)/2600 21.0(28)/2600	58.0/1900 86.0/1700	- 12.0	Mechanical Electronic Control	Tier4.NTE Tier3	190mm(7-1/2"), SAE 4	165 172
3A165	1,647	Naturally Aspirated	18.2(24.5)/2600 26.1(34)/2600	75/1700 107/1700	12.0	Mechanical	Tier3	190mm(7-1/2"), SAE 4	178
4A220	2,197	Naturally Aspirated	33.6(45)/2600	140/1700	13.4	Mechanical	Tier3	190mm(7-1/2"), SAE 4	207
4A220T	2,197	Turbocharger	41.0(55)/2600	174/1700	15.5	Mechanical	Tier3	190mm(7-1/2"), SAE 4	210
3B183	1,826	Naturally Aspirated	28.3(38)/2600	119/1700	14.4	Mechanical	Tier3	190mm(7-1/2"), SAE 4	180
4B243	2,435	Naturally Aspirated	36.5(49)/2600	155/1700	15.6	Mechanical	Tier3	190mm(7-1/2"), SAE 4	207
4B243T	2,435	Turbocharger	44.0(59)/2600	190/1700	17.5	Mechanical	Tier3	190mm(7-1/2"), SAE 4	214
3F183	1,826	Naturally Aspirated	26.1(35)/2600 29.8(40)/2600	115/1800 118/1800	23.0 9.0	Electronic Control C-EGR/DPF	Tier4.Final	190mm(7-1/2"), SAE 4	200
3F183T	1,826	Turbocharger	37.3(50)/2300 33.6(45)/2600 37.5(50)/2600 41.0(55)/2600	166/1700 148/1700 166/1700 181/1700	6.8 20.3 20.5 20.2	Electronic Control C-EGR/DPF	Tier4.Final	190mm(7-1/2"), SAE 4	225
4F243T	2,435	Turbocharger	44.7(60)/2600 49.2(66)/2600 54.4(73)/2600	210/1700 220/1700 240/1700	27.2 21.0 20.1	Electronic Control C-EGR/DPF	Tier4.Final	190mm(7-1/2"), SAE 4	262

Series	Cyl-Bore x Stroke (mm)	Combustion type
3C	3 - 75 x 76	IDI (Swirl chamber)
3A(4A)	3 (4) – 87 x 92.4	IDI (Swirl chamber)
3B(4B)	3 (4) – 87 x 102.4	IDI (Swirl chamber)
3F(4F)	3 (4) – 87 x 102.4	CRDI (Common rail DI)

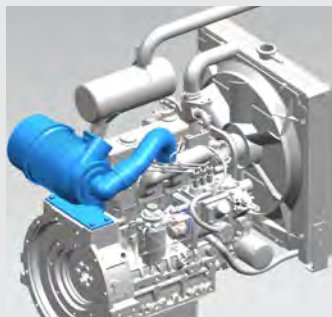
Explanations of engine name			
Number of Cylinders	3	C	100
Name of Series		L	F
			Tier4 Version (LW: Tier3)
			Displacement cc / 10

2. Engine Part Lineup

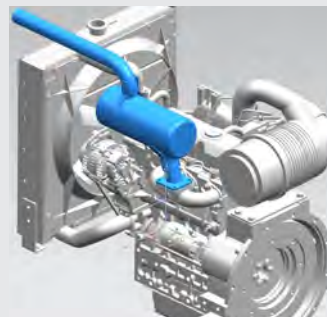
Part Name	Radiator				Air Cleaner			Exhaust Gas Muffler				Fuel Filter
Name of Part Set	3C-RA	3A-RA	4A-RA	4F-RA	3C-AC	4A-AC	4F-AC	3C-MU	3A-MU	4A-MU	4AT-MU	4A-FU
Applicable Engine	3C100LW	3A139LW	4A220LW	3F183T	3C100LW	3A139LW	3F183T	3C100LW	3A139LW	4A200LW	4A220TLW	A,B,C series
		3A150LW	4A220TLW	4F243T		3A150LW	4F243T		3A150LW	4A220LW	4B243TLW	
		3A165LW	3B183LW			3A165LW			3A165LW	4B243LW		
			4B243LW			3B183LW			3B183LW			
			4B243TLW			4A220LW						
			3A165-gen			4A220TLW						
						4B243LW						
						4B243TLW						



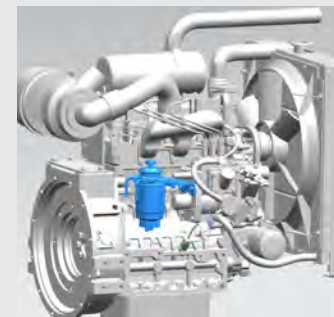
Radiator



Air Cleaner



Exhaust Gas Muffler



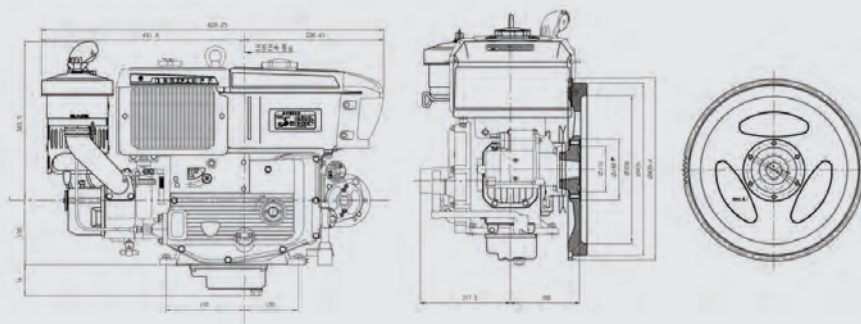
Fuel Filter

Single Cylinder Engine

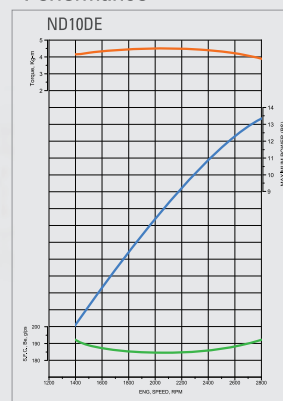


Model		ND10DE
Type		Horizontal Water-Cooled 4-Cycle Diesel Engine
Emission compliance		Non
Aspiration		Naturally Aspirated
Combustion type		Direct Injection
Max power	kW(HP)/rpm	9.69(13)/2400
Rated power	kW(HP)/rpm	7.46(10)/2200
Peak torque	Nm(kgfm)/rpm	42(4.28)/2000
Bare speed (low/high)	rpm	1000/2600
Dimension (LxWxH)	mm	788x485x736
Dry weight	kg(lb)	125(275)
Governor type		Mechanical
Starter		12V-2.0kW
Alternator		12V-25Amp
Flywheel / Housing	mm(in)	-
Coolant Capacity	L	3.3 (with radiator)
Engine Oil capacity	L	2.8

Dimension



Performance

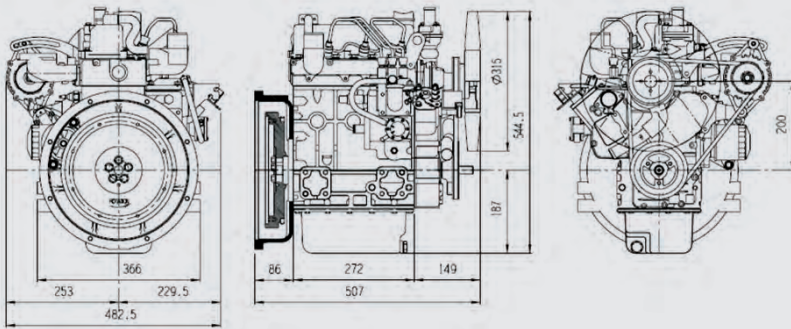


3C Series Engine

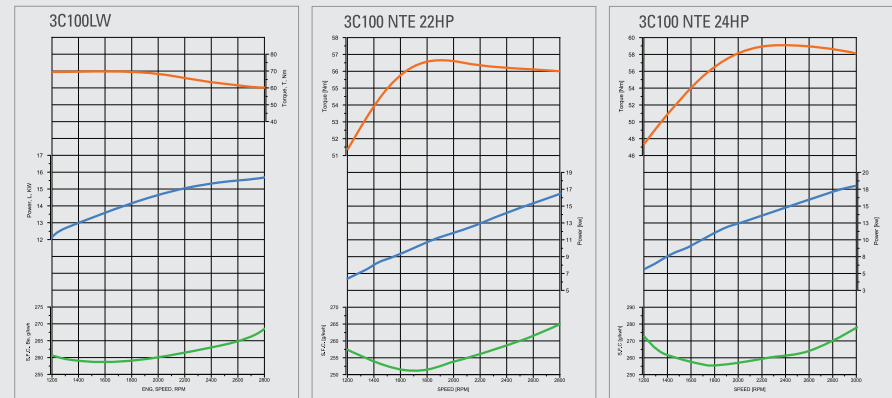


Model		3C100LW	3C100LF-22	3C100LF-24
Type		Vertical Water-Cooled 4-Cycle Diesel Engine		
Emission compliance		Tier4	Tier4. NTE	
Aspiration		Naturally Aspirated		
Combustion type		Swirl Chamber		
Max power	kW(HP)/rpm	16.4(22)/2800	16.4(22)/3000	17.9(24)/3000
Peak torque	Nm(kgfm)/rpm	63.8(6.5)/1900	61(6.2)/2300	
Bare speed (low/high)	rpm	1050/3020	1350/3230	
Dimension (LxWxH)	mm	505x482x553	502x481x562	
Dry weight	kg(lb)	101(222)	100(220)	
Governor type		Mechanical	Mechanical+ECU	
Starter		12V-1.7kW		
Alternator		12V-50(70)Amp		
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #5 & Rear plate		
Coolant Capacity	L	1.6		
Engine Oil capacity	L	3.8	3.2	

Dimension



Performance

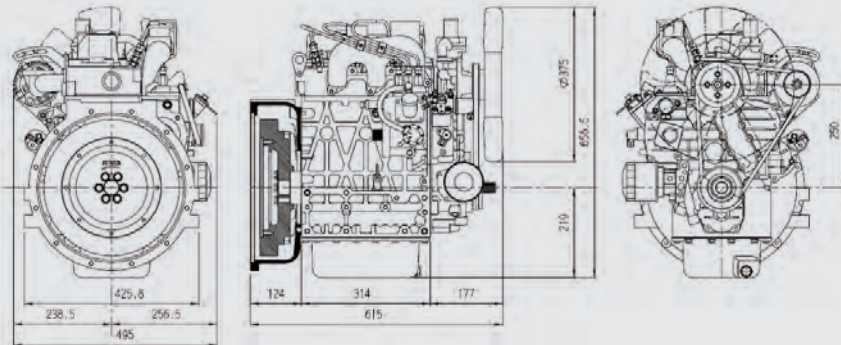


3A Series Engine

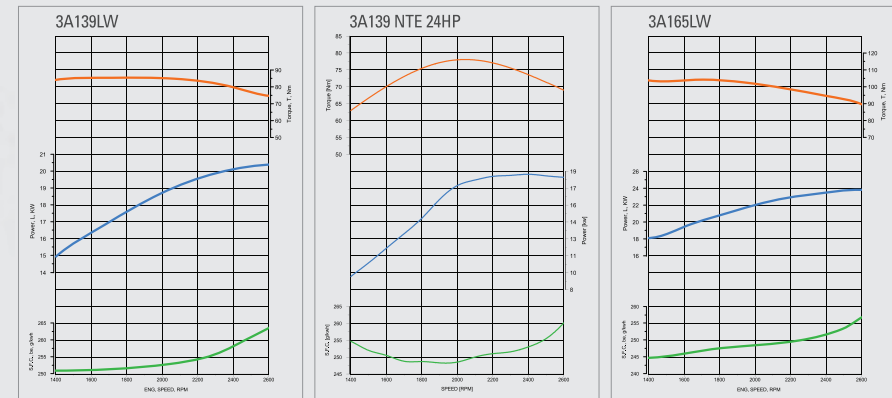


Model		3A139LW	3A139LF	3A165LW
Type		Vertical Water-Cooled 4-Cycle Diesel Engine		
Emission compliance		Tier3	Tier4. NTE	Tier3
Aspiration		Naturally Aspirated		
Combustion type		Swirl Chamber		
Max power	kW(HP)/rpm	20.9(28)/2600	18.3(24.5)/2600	25.4(34)/2600
Peak torque	Nm(kgfm)/rpm	86.3(8.8)/1700	78(7.9)/1900	105(10.7)/1700
Bare speed (low/high)	rpm	1000/2800	1200/2800	1000/2800
Dimension (LxWxH)	mm	615x495x628	605x489x695	615x495x628
Dry weight	kg(lb)	172(379)	165(363)	178(392)
Governor type		Mechanical	Mechanical+ECU	Mechanical
Starter		12V-1.7kW		
Alternator		12V-50(70)Amp		
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #4 & Rear plate		
Coolant Capacity	L	3.3		2.8
Engine Oil capacity	L	5.8		

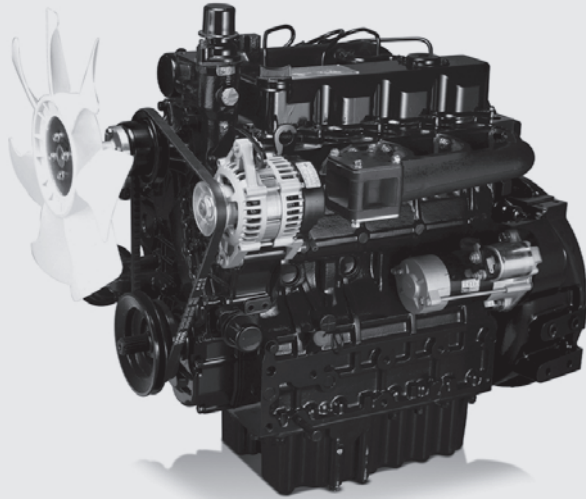
Dimension



Performance

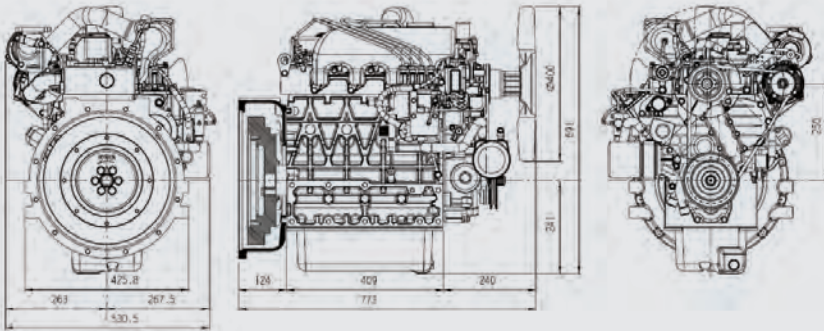


4A Series Engine

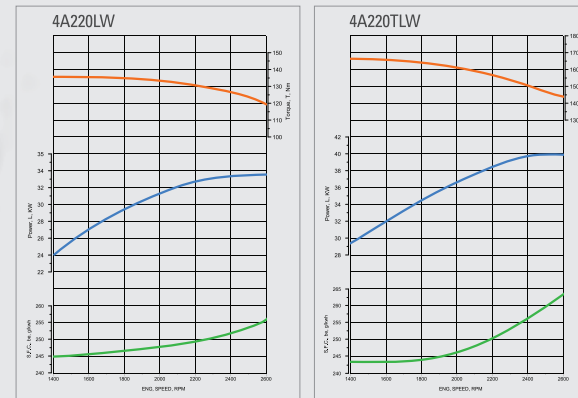


Model		4A220LW	4A220TLW
Type		Vertical Water-Cooled 4-Cycle Diesel Engine	
Emission compliance		Tier3	
Aspiration		Naturally Aspirated	Turbocharger
Combustion type		Swirl Chamber	
Max power	kW(HP)/rpm	33.6(45)/2600	40.3(54)/2600
Peak torque	Nm(kgfm)/rpm	140.3(14.3)/1700	174.6(17.8)/1700
Bare speed (low/high)	rpm	1000 / 2800	
Dimension (LxWxH)	mm	766x495x630	773x530x651
Dry weight	kg(lb)	207 (455)	210 (462)
Governor type		Mechanical	
Starter		12V-1.7kW	
Alternator		12V-50(70)Amp	
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #4 & Rear plate	
Coolant Capacity	L	3.7	
Engine Oil capacity	L	8.0	9.0

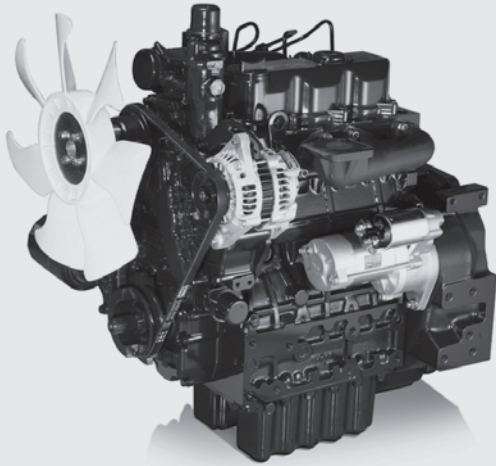
Dimension



Performance

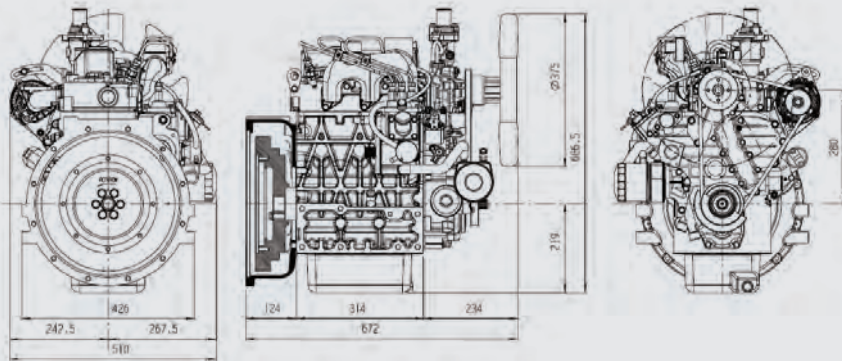


3B Series Engine

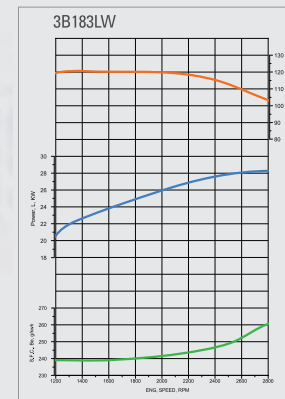


Model		3B183LW
Type		Vertical Water-Cooled 4-Cycle Diesel Engine
Emission compliance		Non
Aspiration		Naturally Aspirated
Combustion type		Swirl Chamber
Max power	kW(HP)/rpm	28.3(38)/2600
Peak torque	Nm(kgfm)/rpm	120(12.2)/1700
Bare speed (low/high)	rpm	1000 / 2800
Dimension (LxWxH)	mm	672x510x700
Dry weight	kg(lb)	180 (396)
Governor type		Mechanical
Starter		12V-1.7kW
Alternator		12V-50(70)Amp
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #4 & Rear plate
Coolant Capacity	L	3.3
Engine Oil capacity	L	5.8

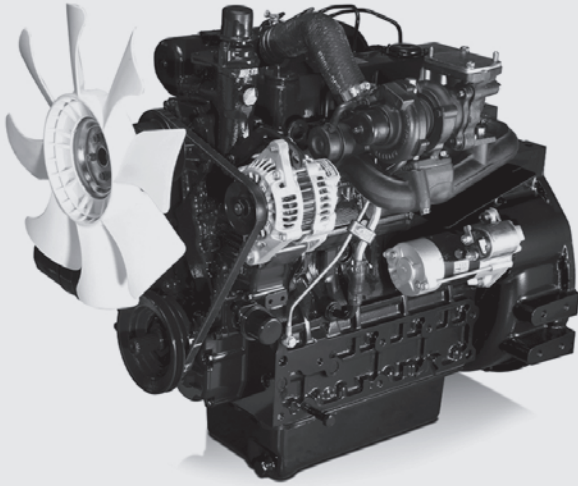
Dimension



Performance

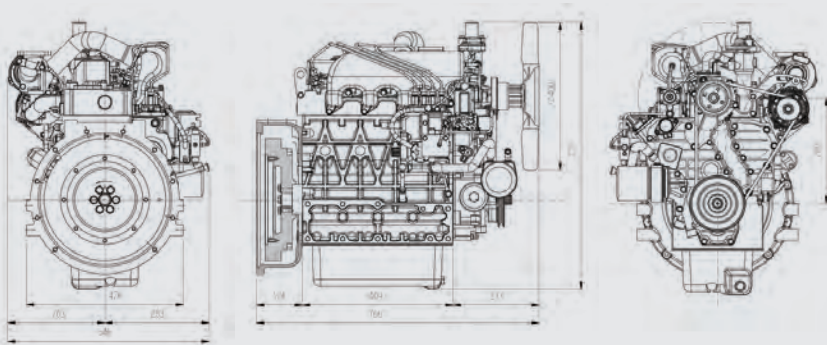


4B Series Engine

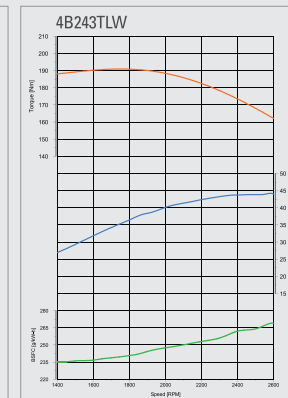
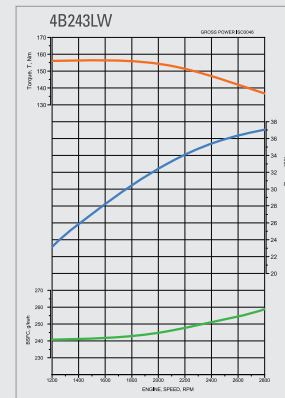


Model		4B243LW	4B243TLW
Type		Vertical Water-Cooled 4-Cycle Diesel Engine	
Emission compliance		Tier3	
Aspiration		Naturally Aspirated	Turbocharger
Combustion type		Swirl Chamber	
Max power	kW(HP)/rpm	36.5(49)/2600	43.9(59)/2600
Peak torque	Nm(kgfm)/rpm	157(16)/1700	190(19.4)/1900
Bare speed (low/high)	rpm	1000/2800	1000/2800
Dimension (LxWxH)	mm	766x495x630	766x510x723
Dry weight	kg(lb)	207(455)	214(471)
Governor type		Mechanical	
Starter		12V-1.7kW	
Alternator		12V-50(70)Amp	
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #4 & Rear plate	
Coolant Capacity	L	3.9	
Engine Oil capacity	L	9.0	9.7

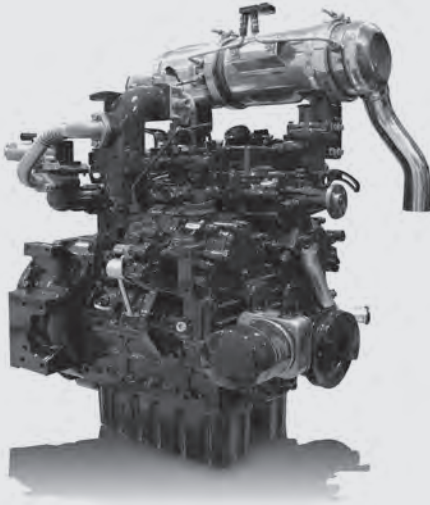
Dimension



Performance

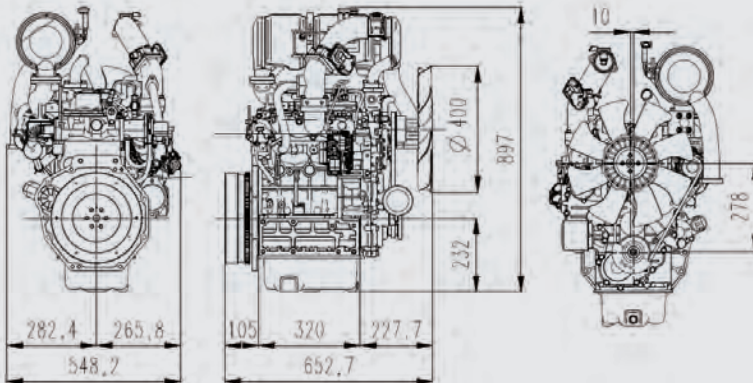


3F Series Engine

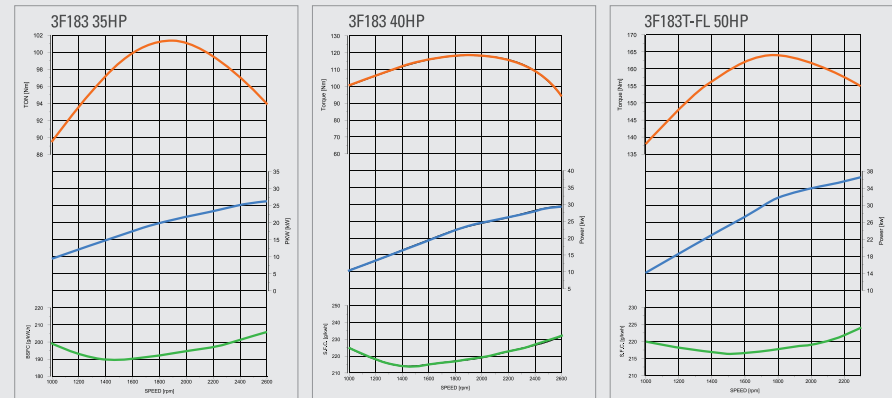


Model		3F183LF-35	3F183LF-40	3F183T-FL
Type		Vertical Water-Cooled 4-Cycle Diesel Engine		
Emission compliance		Tier4.final(DPF) & Tier3		
Aspiration		Naturally Aspirated		Turbocharger
Combustion type		Common Rail Direct Injection		
Max power	kW(HP)/rpm	26.1(35)/2600	29.8(40)/2600	37.3(50)/2300
Peak torque	Nm(kgfm)/rpm	118(12)/1800		166(16.9)/1700
Bare speed (low/high)	rpm	950/2750		900/2450
Dimension (LxWxH)	mm	606x568x933 (23.9x22.4x36.7)		659x563x731
Dry weight	kg(lb)	200(440)		232(510)
Governor type		Electronic Control		
Starter		12V-1.7kW		
Alternator		12V-75Amp		
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #4 & Rear plate		
Coolant Capacity	L	3.4		
Engine Oil capacity	L	6.0		

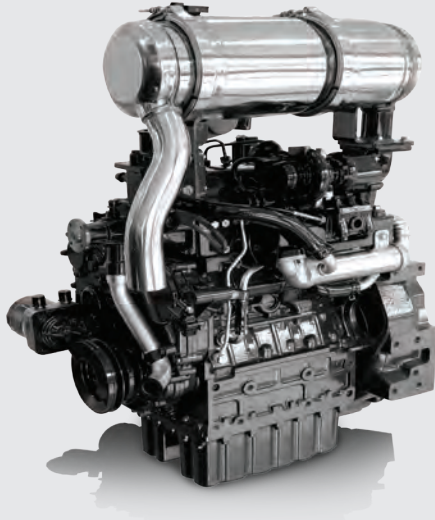
Dimension



Performance

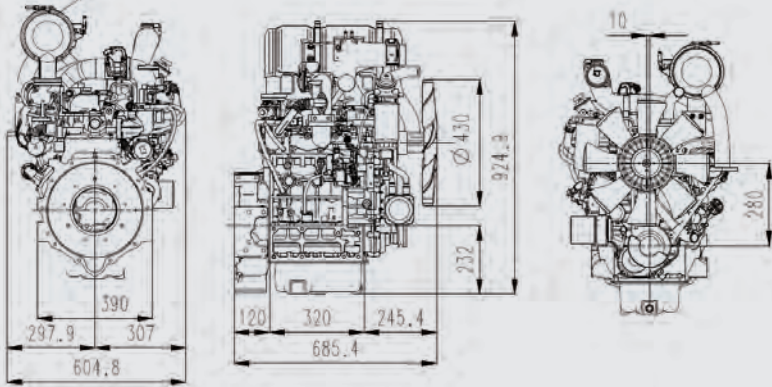


3FT Series Engine

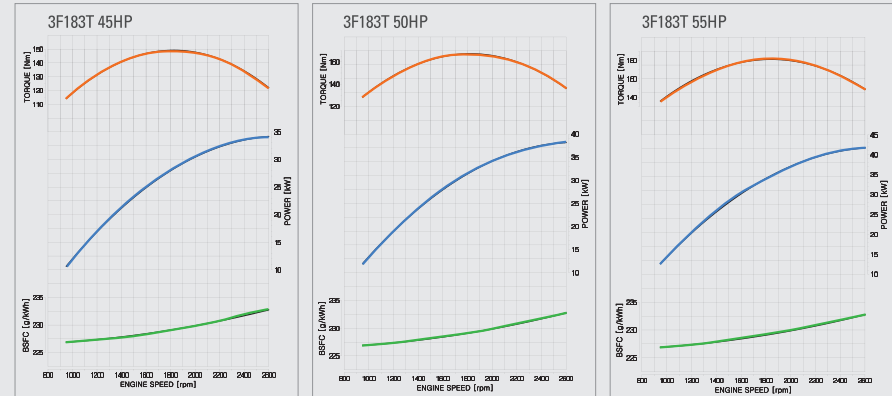


Model		3F183T-45	3F183T-50	3F183T-55
Type		Vertical Water-Cooled 4-Cycle Diesel Engine		
Emission compliance		Tier4.final(DPF) & Tier3		
Aspiration		Turbocharger		
Combustion type		Common Rail Direct Injection		
Max power	kW(HP)/rpm	33.6(45)/2600	37.3(50)/2600	41(55)/2600
Peak torque	Nm(kgfm)/rpm	148(15.1)/1700	166(16.9)/1700	181(18.4)/1700
Bare speed (low/high)	rpm	950 / 2700		
Dimension (LxWxH)	mm	685x605x925		
Dry weight	kg(lb)	238		
Governor type		Electronic Control		
Starter		12V-1.7kW		
Alternator		12V-75Amp		
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #4 & Rear plate		
Coolant Capacity	L	3.4		
Engine Oil capacity	L	6.0		

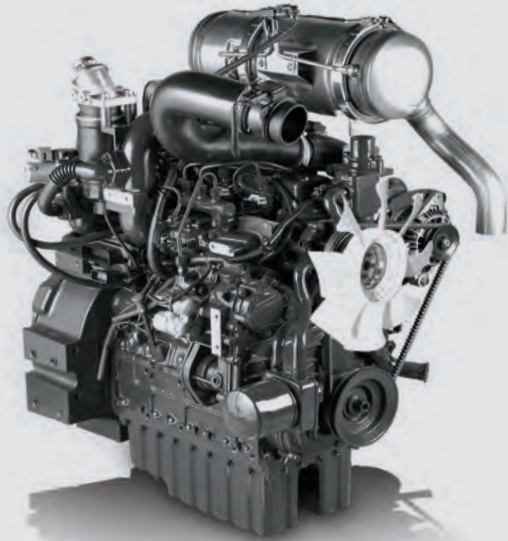
Dimension



Performance

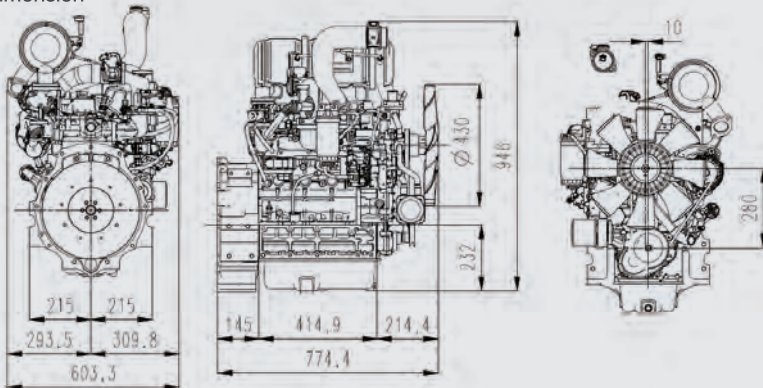


4FT Series Engine

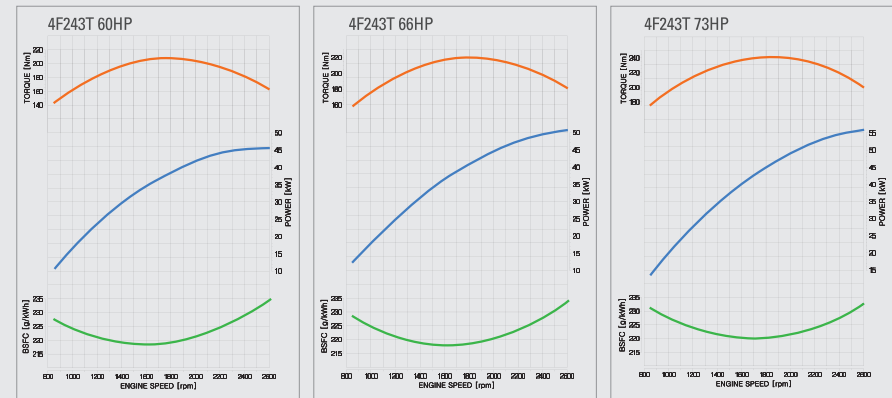


Model		4F243T-60	4F243T-66	4F243T-73
Type		Vertical Water-Cooled 4-Cycle Diesel Engine		
Emission compliance		Tier4.final(DPF) & Tier3		
Aspiration		Turbocharger		
Combustion type		Common Rail Direct Injection		
Max power	kW(HP)/rpm	44.7(60)/2600	49.2(66)/2600	54.4(73)/2600
Peak torque	Nm(kgfm)/rpm	210(21.4)/1700	220(22.5)/1700	240(24.5)/1700
Bare speed (low/high)	rpm	850 / 2750		
Dimension (LxWxH)	mm	775x600x1009		
Dry weight	kg(lb)	279 (614)		
Governor type		Electronic Control		
Starter		12V-1.7kW		
Alternator		12V-75Amp		
Flywheel / Housing	mm(in)	190(7-1/2) / SAE #4 & Rear plate		
Coolant Capacity	L	4.2		
Engine Oil capacity	L	9.7		

Dimension



Performance



12. Generator Engine Lineup(60Hz)

Series Name	Displacement CC	Aspiration System	Engine Name	Stand-by Power kW/rpm	Applicable Technologies	Frequency Fluctuation Rate	Emission Regulations	Weight kg	Engine Parts			
									Radiator	Air Cleaner	Exhaust Gas Muffler	Fuel Filter
3C100	1,007	Naturally Aspirated	3C100LWG-D 3C100LWG-D1 3C100LWEG-D	10/1800 16.4/3600 16.4/3600	Mechanical Mechanical Electronic Control	5% 5% 0%	Tier3	100	3C-RA	3C-AC	3C-MU	4A-FU
			3C100LWEG-U1 3C100LWEG-U	10/1800 16.4/3600	Electronic Control Electronic Control	0% 0%	Tier4.NTE	101				
3A165	1,647	Naturally Aspirated	3A165LWG 3A165LWEG	17/1800 18.5/1800	Mechanical Electronic Control	5% 0%	Tier3	174	4A-RA	4A-AC	3A-MU	
			3A165LFG-U	18.5/1800	Electronic Control	0%	Tier4.NTE	178			4A-MU	
4A220	2,197	Naturally Aspirated	4A220LWG 4A220LWEG	24/1800 24/1800	Mechanical Electronic Control	5% 0%	Tier3	207			4AT-MU	
4B243T	2,435	Turbocharger	4B243TLWG-D 4B243LWEG-D	30/1800 30/1800	Mechanical Electronic Control	5% 0%	Tier3	214				
3F183T	2,435	Turbocharger	3FT-SG4-U	25/1800	CRS/C-EGR/DPF	0%	Tier4.final	225	4F-RA	4F-AC	-	-
4F243T	2,435	Turbocharger	4FT-SG3-D 4FT-SG4-U	36/1800 36/1800	CRS/C-EGR CRS/C-EGR/DPF	0% 0%	Tier3 Tier4.final	262				

Series	Cyl-Bore x Stroke (mm)	Combustion type	Flywheel Housing	Flywheel
3C	3 - 75 x 76	IDI (Swirl chamber)	SAE #5	190mm(7-1/2 inch)
3A(4A)	3 (4) – 87 x 92.4	IDI (Swirl chamber)	SAE #4	190mm(7-1/2 inch)
3B(4B)	3 (4) – 87 x 102.4	IDI (Swirl chamber)	SAE #4	190mm(7-1/2 inch)
3F(4F)	3 (4) – 87 x 102.4	CRDI (Common rail DI)	SAE #4	190mm(7-1/2 inch)

13. Generator Engine Lineup(50Hz)

Series Name	Displacement CC	Aspiration System	Engine Name	Stand-by Power kW/rpm	Applicable Technologies	Frequency Fluctuation Rate	Emission Regulations	Weight kg	Engine Parts			
									Radiator	Air Cleaner	Exhaust Gas Muffler	Fuel Filter
3C100	1,007	Naturally Aspirated	3C100LWEG-E 3C100LWG-E 3C100LWEG-E1	8/1500 15/3000 16.4/3000	Electronic Control Mechanical Electronic Control	0% 5% 0%	Tier3	100	3C-RA	3C-AC	3C-MU	4A-FU
3A165	1,647	Naturally Aspirated	3A165LWEG-E	15/1500	Electronic Control	0%	Tier3	174	4A-RA	4A-AC	3A-MU	
4A220	2,197	Naturally Aspirated	4A220LWEG-E	18/1500	Electronic Control	0%	Tier3	207			4A-MU	
4B243T	2,435	Turbocharger	4B243TLWEG-E	25/1500	Electronic Control	0%	Stage3A	214			-	
4F243T	2,435	Turbocharger	4FT-SG3-E	29.8/1500	CRS/C-EGR	0%	Stage3A	262	4F-RA	4F-AC	-	-

Series	Cyl-Bore x Stroke (mm)	Combustion type	Flywheel Housing	Flywheel
3C	3 - 75 x 70	IDI (Swirl chamber)	SAE #5	190mm(7-1/2 inch)
3A(4A)	3 (4) – 87 x 92.4	IDI (Swirl chamber)	SAE #4	190mm(7-1/2 inch)
3B(4B)	3 (4) – 87 x 102.4	IDI (Swirl chamber)	SAE #4	190mm(7-1/2 inch)
3F(4F)	3 (4) – 87 x 102.4	CRDI (Common rail DI)	SAE #4	190mm(7-1/2 inch)



ISO 9001
Obtained Certification
NO: 954596
(Quality Management System)



ISO 14001
Obtained Certification
NO. 771475
(Quality Management System)



OHSAS 18001
Obtained Certification
NO: K033008
(Safety and Health
Management System)



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