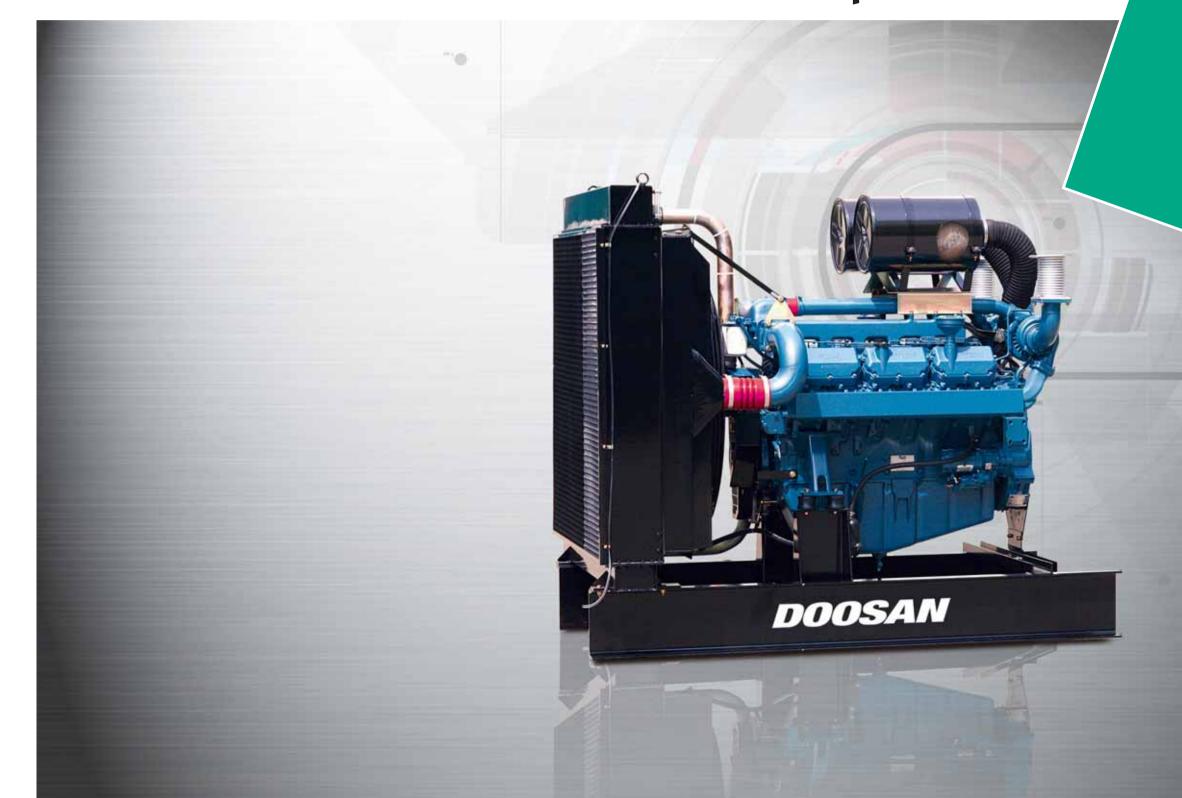


Doosan Diesel Engine for Power unit & Fire Pump

Doosan Diesel Engine for Power unit & Fire Pump





Fax:+82-2-3398-8509 : http://engine.doosaninfracore.co.kr

Doosan Infracore

The Introduction of Engines and Materials BG

We started producing diesel engines for the first time in 1958. Our production facility is located in Incheon, Korea and entered full production under the license of MAN technology in 1975 and ISUZU techinology in 1979. Furthermore, we began to produce the CNG engine in 1998 so that our reinforced line up from Diesel engine to Natural Gas engine could supply more various choices and meet the various needs for

We have two sites in Korea: an engine production facility and foundry shops producing cast components in Incheon, and an engine R&D facility in Kunsan.

We have steadily expanded our business on the foundation of accumulated technology & know-how, produce 66 typical models under the 1,200 horsepower.

Currently, with streamlined and integrated production facilities including iron casting, machining, and assembly line, the Incheon engine shop has the annual capacity of 20,000 units for small engine, 24,000 units for medium, 12,000 units for large, and 8,000 units for marine application engines. The Incheon foundry shop has the annual capacity of 36,000 tons.

The business organization in terms of its goods is largely divided into four groups - commercial vehicle engine, industrial engine, marine engine, and genset.





- 1958 Produce the Marine Engines co-developed with AVL
- 1975 Begin to produce of medium duty engines under license of
- 1985 Produce our own designed engine, STORM series
- 1994 Acquire the ISO9001 certification
- 1995 Produce our own designed engine, DE & DV series
- 1997 Acquire ISO14001 certification
- 1998 Produce EURO- engines(TIS) and CNG engines
- 2004 Produce DL08, DV11(EURO- , TIER-)
- 2006 Start to produce DL06(EURO- , TIER-)
- 2007 Produce EURO 4 engines (DL06 S, DL08 S, DV11 S)
- 2008 Reached One-million diesel engine produce on March.

Quality Award

1983 Grand Prix of Quality Control (Honor of President/ Korea) 1986 Iron Medal of Industry with STORM engine (Honor of President/ Korea)

1994 Acquire ISO 9001/9002

1995 Gold Medal of Q.C.C. Contest(Honor of President/ Korea) 1996 Grand Prix Tech. of Environmental Reservation with DE12TI engine (Honor of President/ Korea)

1997 Grand Prix of Quality Manage (Honor of President/ Korea) Acquire ISO 14001

1999 Korean 100 Technology of 20th century with GE12TI CNG Engine (Seoul Economy Daily, Ministry of Science and

2000 Best Award on Engine with GE12TI engine (NGV2000)

2006 Award on GM Group Supplier of the Year (SOY)

Products

Vehicle and Industrial Diesel & CNG Engine for

Engine Group Truck, Bus

and Agricultural/ Construction

Machinery, etc

Marine **Engine Group** Diesel Engine for marine propulsion and Generator

Generator Diesel & NG Engine for

Engine Group Generator

Materials Group Cast Iron Products

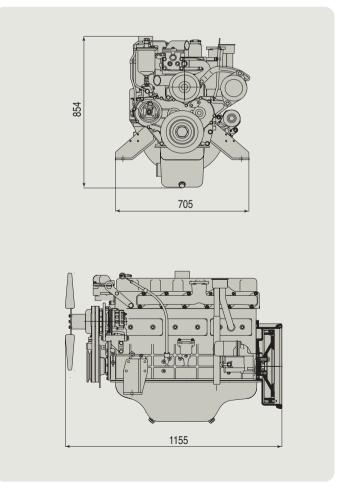
Aluminum Cast Products Sintered Metal Products



Main Specification

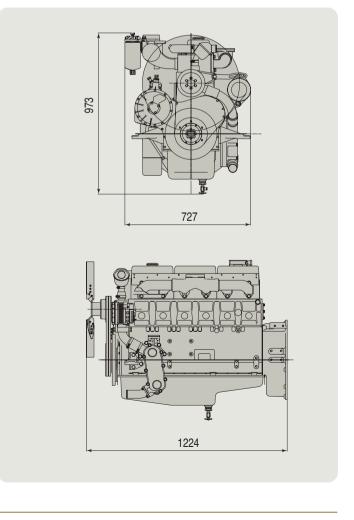
Engine Model	PU066
	4 cycle,
	water cooled,
Туре	overhead valve,
	in-line, 6 cylinder
	direct injection type
Flywheel Spec	SAE No. 3, 11 1/2
	Counter clockwise
Direction of crankshaft rotation	viewed from
	flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	13
Cooling water capacity (liter)	12
Fuel	Diesel fuel
Fuel injection pump	Bosch AD type
Governor	RSV all speed control
	type
Cooling fan	Blower type
Bore × Stroke (mm)	102×118
Displacement(liter)	5.8
Engine Size($L \times H \times W$)	1,155 × 705 × 775
Weight	450

Engine Dimension



Main Specification

Engine Model	PU086
Туре	4 cycle, water cooled, overhead valve, in-line, 6 cylinder direct injection type
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	15
Cooling water capacity (liter)	14
Fuel	Diesel fuel
Fuel injection pump	In-line type
Governor	RSV all speed
	control type
Cooling fan	Blower type
Bore × Stroke (mm)	111 × 139
Displacement(liter)	8.1
Engine Size($L \times H \times W$)	1,244 × 716 × 900
Weight	780





DOOSAN PU086T

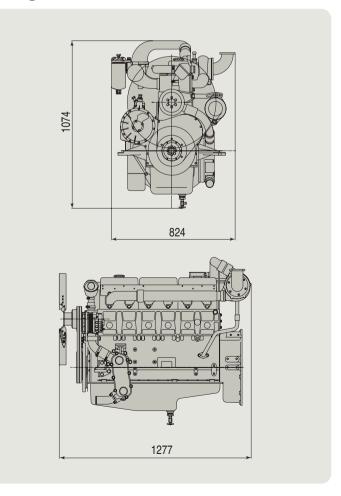




Main Specification

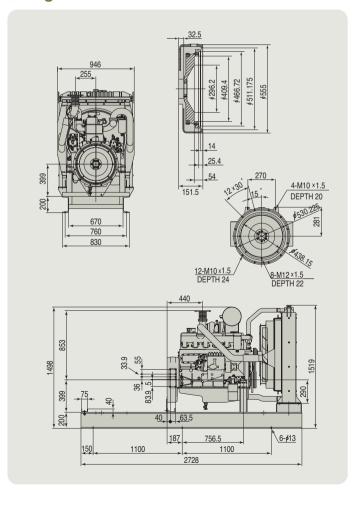
Engine Model	PU086T
Туре	4 cycle, water cooled, overhead valve, in-line, 6 cylinder direct injection type, turbocharger
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	15
Cooling water capacity (liter)	14
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RSV all speed control type
Cooling fan	Blower type
Bore × Stroke (mm)	111 × 139
Displacement(liter)	8.1
Engine Size($L \times H \times W$)	1,277 × 824 × 1,001
Weight	780

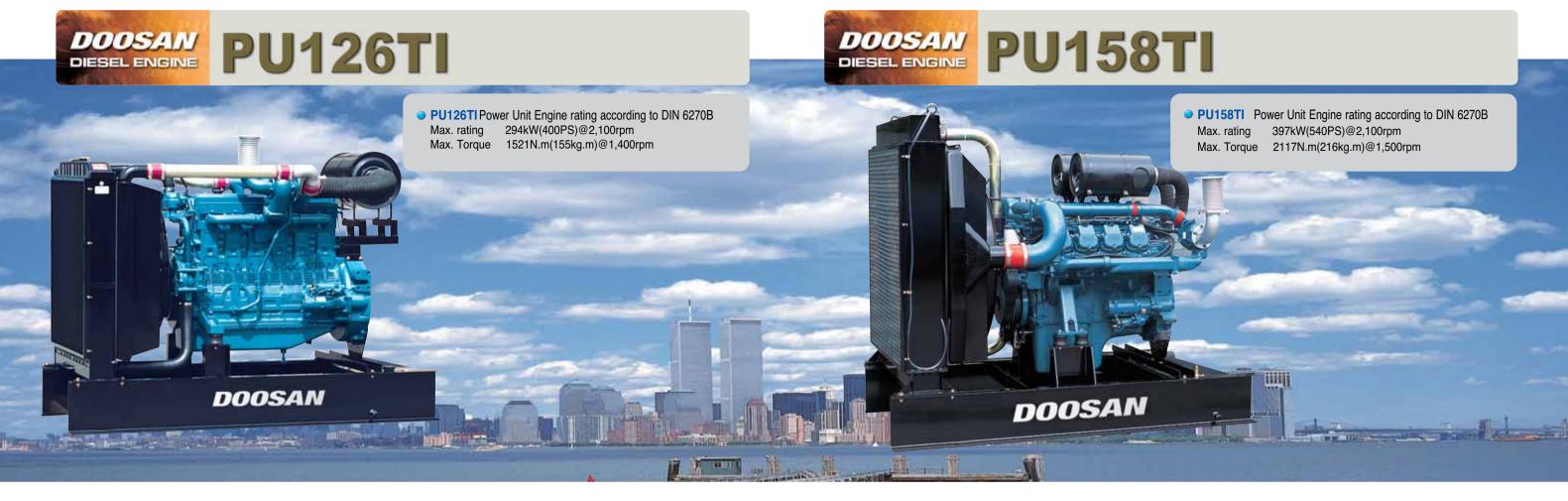
Engine Dimension



Main Specification

Engine Model	PU086TI
	4 cycle, water cooled, overhead valve.
_	in-line, 6 cylinder
Туре	direct injection type,
	turbocharger,
	intercooler
Flywheel Spec	SAE No. 1, 14
	Counter clockwise
Direction of crankshaft rotation	viewed
	from flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	15
Cooling water capacity (liter)	14
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RSV all speed
	control type
Cooling fan	Blower type
Bore × Stroke (mm)	111 × 139
Displacement(liter)	8.1
Engine Size(L \times H \times W)	1,242 × 918 × 1,100
Weight	792

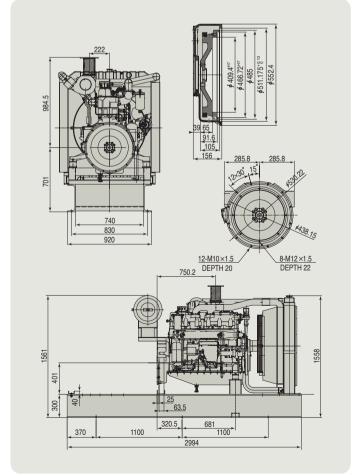




Main Specification

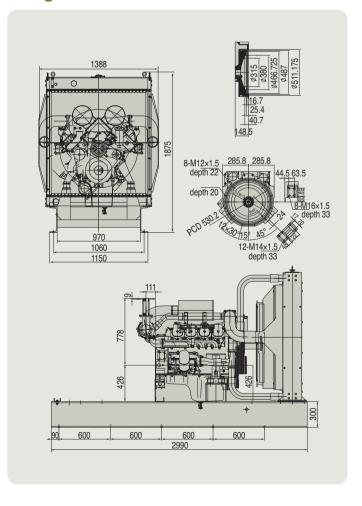
Engine Model	PU126TI
	4 cycle, water cooled,
	overhead valve,
Туре	in-line, 6 cylinder
	direct injection type,
	turbocharger,
	intercooler
Flywheel Spec	SAE No. 1, 14
	Counter clockwise
Direction of crankshaft rotation	viewed from
	flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	23
Cooling water capacity (liter)	19
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RSV all speed control
	control type
Cooling fan	Blower type
Bore × Stroke (mm)	123 × 155
Displacement(liter)	11.1
Engine Size(L \times H \times W)	1,383 × 870 × 1,207
Weight	910

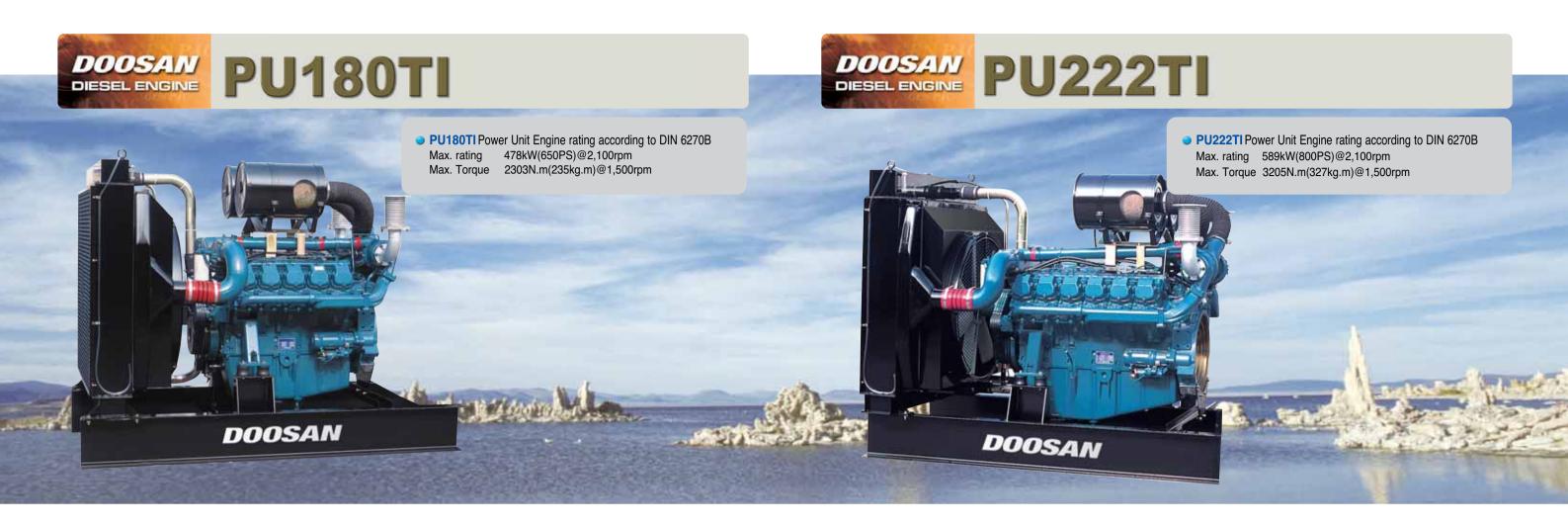
Engine Dimension



Main Specification

Engine Model	PU158TI
Туре	4 cycle, water cooled, overhead valve, V-type, 8 cylinder direct injection type, turbocharger, intercooler
Flywheel Spec	SAE No. 1, 14
	Counter clockwise
Direction of crankshaft rotation	viewed from
	flywheel
Firing order	1-5-7-2-6-3-4-8
Lub. oil capacity (liter)	28
Cooling water capacity (liter)	20
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RQV all speed
Covernor	control type
Cooling fan	Blower type
Bore x Stroke (mm)	128 × 142
Displacement(liter)	14.6
Engine Size(L \times H \times W)	1,484 × 1,389 × 1,162
Weight	950

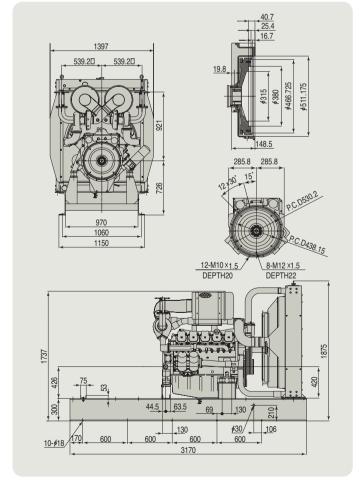




Main Specification

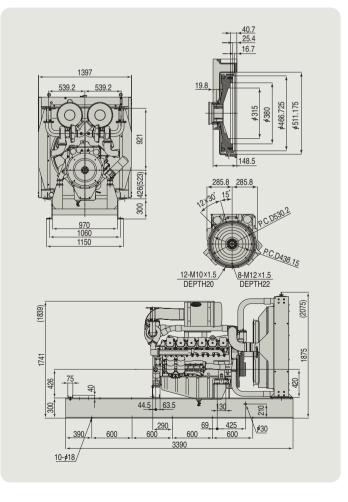
Engine Model	PU180TI
	4 cycle, water cooled,
	overhead valve,
Type	V-type, 10 cylinder
21	direct injection type,
	turbocharger,
	intercooler
Flywheel Spec	SAE No. 1, 14
	Counter clockwise
Direction of crankshaft rotation	viewed from
	flywheel
Firing order	1-6-5-10-2-7-3-8-4-9
Lub. oil capacity (liter)	35
Cooling water capacity (liter)	21
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RQV all speed
	control type
Cooling fan	Blower type
Bore × Stroke (mm)	128 × 142
Displacement(liter)	18.3
Engine Size($L \times H \times W$)	1,557 × 1,389 × 1,248
Weight	1,175

Engine Dimension



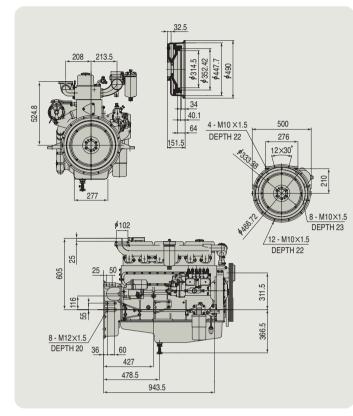
Main Specification

Engine Model	PU222TI
Туре	4 cycle, water cooled, overhead valve, V-type, 12 cylinder direct injection type, turbocharger, intercooler
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-12-5-8-3-10-6-7-2-11-4-9
Lub. oil capacity (liter)	40
Cooling water capacity (liter)	23
Fuel	Diesel fuel
Fuel injection pump	In-line type
Governor	RQV all speed control type
Cooling fan	Blower type
Bore × Stroke (mm)	128 × 142
Displacement(liter)	21.9
Engine Size($L \times H \times W$)	1,717 × 1,389 × 1,288
Weight	1,575



Engine Model	PU086
Туре	4 cycle, water cooled, overhead valve, in-line, 6 cylinder direct injection type
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	15
Cooling water capacity (liter)	14
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RSV all speed control type
Cooling fan	N/A
Bore × Stroke (mm)	111 × 139
Displacement(liter)	8.1
Engine Size(L × H × W)	1,117 × 759 × 977
Weight	780

Engine Dimension



Fire Pump

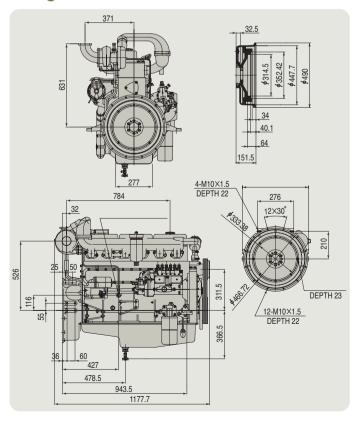
Max. Rating kW(PS)@rpm Min. Rating kW(PS)@rpm

173 (235) / 2,450 85 (115) / 1,000

Main Specification

Engine Model	PU086T
Туре	4 cycle, water cooled, overhead valve, in-line, 6 cylinder direct injection type turbocharger
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	15
Cooling water capacity (liter)	14
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RSV all speed control type
Cooling fan	N/A
Bore × Stroke (mm)	111 × 139
Displacement(liter)	8.1
Engine Size(L × H × W)	1,183 × 824 × 1,074
Weight	790

Engine Dimension



Fire Pump PU086TI

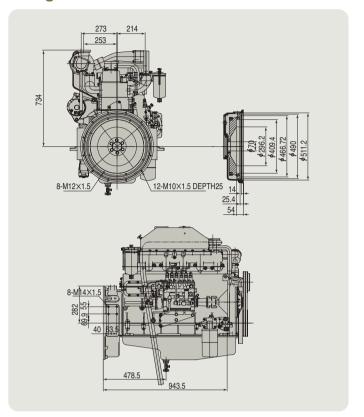
Max. Rating kW(PS)@rpm Min. Rating kW(PS)@rpm

228 (310) / 2,450 77 (105) / 1,000

Main Specification

Engine Model	PU086TI
Туре	4 cycle, water cooled, overhead valve, in-line, 6 cylinder direct injection type turbocharger intercooler
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	15
Cooling water capacity (liter)	14
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RSV all speed control type
Cooling fan	N/A
Bore × Stroke (mm)	111 × 139
Displacement(liter)	8.1
Engine Size(L×H×W)	1,116 × 728 × 1,106
Weight	800

Engine Dimension



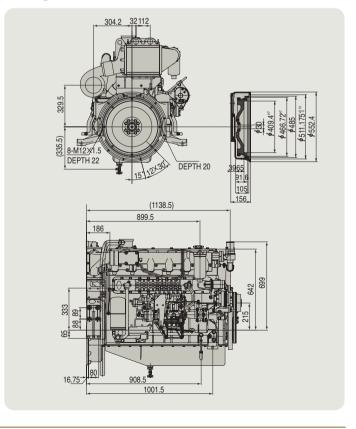
Fire Pump

Max. Rating kW(PS)@rpm Min. Rating kW(PS)@rpm

294 (400) / 2,100 143 (195) / 1,000

Main Specification

Engine Model	PU126TI
	4 cycle,
	water cooled,
	overhead valve,
Type	in-line, 6 cylinder
	direct injection type
	turbocharger
	intercooler
Flywheel Spec	SAE No. 1, 14
Divertion of eventral of wateries	Counter clockwise
Direction of crankshaft rotation	viewed from flywheel
Firing order	1-5-3-6-2-4
Lub. oil capacity (liter)	23
Cooling water capacity (liter)	19
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RSV all speed control type
Cooling fan	N/A
Bore × Stroke (mm)	123 × 155
Displacement(liter)	11.1
Engine Size(L \times H \times W)	1,223 × 890 × 1,095
Weight	925



Fire Pump PU158TI

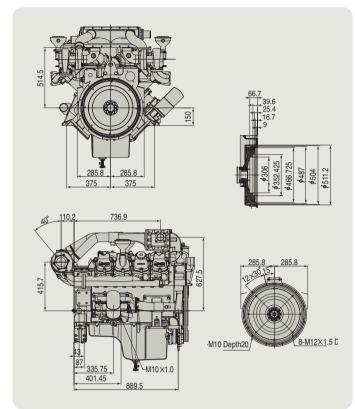
Max. Rating kW(PS)@rpm Min. Rating kW(PS)@rpm

408 (555) / 2,350 338 (459) / 1,300

Main Specification

Engine Model	PU158TI
Туре	4 cycle, water cooled, overhead valve, V-type, 8 cylinder direct injection type turbocharger intercooler
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-5-7-2-6-3-4-8
Lub. oil capacity (liter)	28
Cooling water capacity (liter)	20
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RQV all speed
Cooling fan	N/A
Bore × Stroke (mm)	128 × 142
Displacement(liter)	14.6
Engine Size(L × H × W)	1,229 × 1,140 × 1,205
Weight	1,000

Engine Dimension



Fire Pump PU180TI

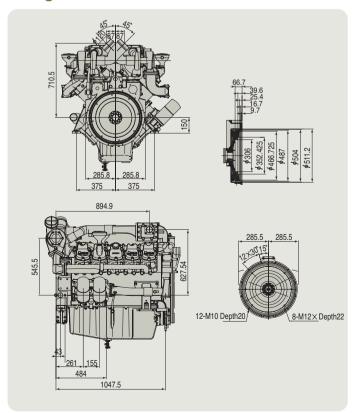
Max. Rating kW(PS)@rpm Min. Rating kW(PS)@rpm

511 (695) / 2,350 398 (541) / 1,300

Main Specification

4 cycle, water cooled, overhead valve, V-type, 10 cylinder direct injection type turbocharger intercooler Flywheel Spec SAE No. 1, 14 Counter clockwise viewed from flywheel Firing order 1-6-5-10-2-7-8-3-4-9 Lub. oil capacity (liter) 35 Cooling water capacity (liter) 21 Fuel Diesel fuel Fuel injection pump Bosch P type Governor RQV all speed Cooling fan N/A Bore × Stroke (mm) 128 × 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 × 1,140 × 1,262 Weight 1,225	Engine Model	PU180TI
Flywheel Spec SAE No. 1, 14 Counter clockwise viewed from flywheel Firing order Lub. oil capacity (liter) Cooling water capacity (liter) Fuel Fuel Diesel fuel Fuel injection pump Governor Cooling fan N/A Bore × Stroke (mm) Diesel fuel 128 × 142 Displacement(liter) 18.3 Engine Size(L × H × W) Counter clockwise viewed from flywheel 1-6-5-10-2-7-8-3-49 21 Diesel fuel Bosch P type RQV all speed N/A 128 × 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 × 1,140 × 1,262	Туре	water cooled, overhead valve, V-type, 10 cylinder direct injection type turbocharger
Direction of crankshaft rotation Counter clockwise viewed from flywheel Firing order Lub. oil capacity (liter) Cooling water capacity (liter) Fuel Diesel fuel Fuel injection pump Bosch P type Governor RQV all speed Cooling fan N/A Bore × Stroke (mm) Displacement(liter) 18.3 Engine Size(L × H × W) Counter clockwise viewed from flywheel 1-6-5-10-2-7-8-3-49 21 Diesel fuel RQV all speed N/A 128 × 142 Displacement(liter) 18.3	Flywheel Spec	
Lub. oil capacity (liter) 35 Cooling water capacity (liter) 21 Fuel Diesel fuel Fuel injection pump Bosch P type Governor RQV all speed Cooling fan N/A Bore × Stroke (mm) 128 x 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 x 1,140 x 1,262		Counter clockwise
Cooling water capacity (liter) 21 Fuel Diesel fuel Fuel injection pump Bosch P type Governor RQV all speed Cooling fan N/A Bore × Stroke (mm) 128 x 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 x 1,140 x 1,262	Firing order	1-6-5-10-2-7-8-3-49
Fuel Diesel fuel Fuel injection pump Bosch P type Governor RQV all speed Cooling fan N/A Bore × Stroke (mm) 128 x 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 x 1,140 x 1,262	Lub. oil capacity (liter)	35
Fuel injection pump Bosch P type Governor RQV all speed Cooling fan N/A Bore × Stroke (mm) 128 x 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 x 1,140 x 1,262	Cooling water capacity (liter)	21
Governor RQV all speed Cooling fan N/A Bore × Stroke (mm) 128 x 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 x 1,140 x 1,262	Fuel	Diesel fuel
Cooling fan N/A Bore × Stroke (mm) 128 × 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 × 1,140 × 1,262	Fuel injection pump	Bosch P type
Bore × Stroke (mm) 128 × 142 Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 × 1,140 × 1,262	Governor	RQV all speed
Displacement(liter) 18.3 Engine Size(L × H × W) 1,295 × 1,140 × 1,262	Cooling fan	N/A
Engine Size(L \times H \times W) 1,295 \times 1,140 \times 1,262	Bore × Stroke (mm)	128 × 142
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Displacement(liter)	18.3
Weight 1,225	Engine Size(L×H×W)	1,295 × 1,140 × 1,262
	Weight	1,225

Engine Dimension



Fire Pump

PU222TI

Max. Rating kW(PS)@rpm Min. Rating kW(PS)@rpm

625 (850) / 2,350 515 (700) / 1,300

Main Specification

Engine Model	PU222TI
Туре	4 cycle, water cooled, overhead valve, V-type, 12 cylinder direct injection type turbocharger intercooler
Flywheel Spec	SAE No. 1, 14
Direction of crankshaft rotation	Counter clockwise viewed from flywheel
Firing order	1-12-5-8-3-10-6-7-2-11-4-9
Lub. oil capacity (liter)	40
Cooling water capacity (liter)	23
Fuel	Diesel fuel
Fuel injection pump	Bosch P type
Governor	RQV all speed
Cooling fan	N/A
Bore × Stroke (mm)	128 × 142
Displacement(liter)	21.9
Engine Size($L \times H \times W$)	$1,453 \times 1,140 \times 1,292$
Weight	1,650

