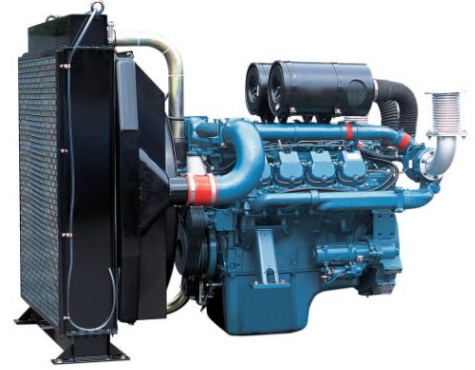


P158LE

DESCRIPTION

- Easy installation, maintenance and durability, which engine users always look for, can be found in P158LE engine.
- As P158LE engine has been in the generator market for many years, users can trust its reputation of easy maintenance with proven quality.



FEATURES & BENEFITS

[Easy Maintenance & Operation]

- Mechanical type engine
- Commonality of key parts

[High Durability]

- High strength design for main structure parts
- Higher warranty period through sufficient verification
 - 1000hrs /5years (ESP)
 - Unlimited /1year (PRP)

OUTPUT

1,500 RPM (50Hz)									1,800 RPM (60Hz)								
Standby			Prime			Continuous			Standby			Prime			Continuous		
kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA	kWm	kWe	kVA
414	374	468	363	326	408	254	224	280	458	408	510	402	355	444	281	242	303

- Generator efficiency (typical) : 94.0%
- kWm= kilo Watt mechanical, Gross power; kWe= kilo Watt electric = (kWm-Fan loss) x Generator eff.
kVA= kilo Volt Ampere
Calculations based on a 0.8 power factor = kWe/0.8

P158LE

GENERAL DATA

Type	Diesel, Water cooled, Turbo charged & Intercooled
Bore	128mm
Stroke	142mm
Displacement liter	14.62
Cylinders and Arrangement	Cast iron, 8 Cylinder, Vee-Type
Battery charging alternator	28.5V x 45A alternator
Starting voltage	24V
Fuel system	Mechanical Injection Pump
Fuel filter	Full flow, Cartridge type with water drain valve.
Lube oil filter type (s)	Full flow, Cartridge type
Lube oil capacity (l)	Max. 21 liters , Min. 17 liters
Flywheel dimensions	SAE NO. 1M / Clutch NO. 14 M

COOLING SYSTEM

Cooling method	Fresh water forced circulation	
Cooling ratio	50% ethylene glycol; 50% water	
Water capacity (L)	With radiator	80liters
	Without radiator	20liters
Fan power (kW)	16kW(50Hz), 24kW(60Hz)	
Cooling system air flow (m ³ /min)	8.7	

FUEL CONSUMPTION

1,500 RPM (50Hz)

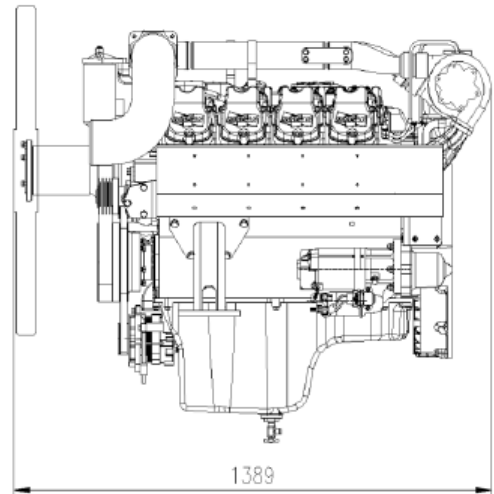
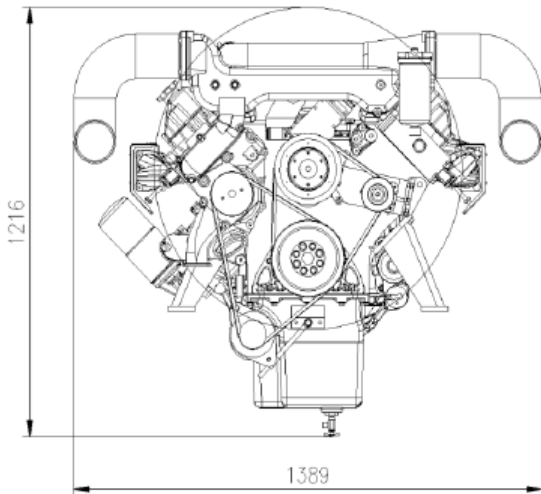
%	kWm	BHP	Liters/hr	USgal/hr
Standby Power				
100	414.0	555.2	102.9	27.18
Prime Power				
100	363.0	486.8	89.3	23.59
75	272.3	365.1	65.1	17.20
50	181.5	243.4	43.9	11.60
25	90.8	121.7	23.7	6.26
Continuous Power				
100	254.0			

1,800 RPM (60Hz)

%	kWm	BHP	Liters/hr	USgal/hr
Standby Power				
100	458.0	614.2	118.6	31.33
Prime Power				
100	402.0	539.1	102.5	27.08
75	301.5	404.3	74.7	19.73
50	201.0	269.5	50.6	13.37
25	100.5	134.8	28.0	7.40
Continuous Power				
100	281.0			

P158LE

DIMENSIONS



Weights and Dimensions

Item	Length (mm)	Width (mm)	Height (mm)	Dry Weight (kg)
Engine	1,389	1,389	1,216	950

POWER RATING GUIDE

The power ratings of Emergency Standby and Prime are in accordance with ISO 8528. Fuel Stop power in accordance with ISO 3046. Electric power (kWe) must be considered cooling fan loss, alternator efficiency, altitude derating and ambient temperature.

ESP (STANDBY POWER) is applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. A standby rated engine should be sized for a maximum of an 70% average load factor and 200 hours of operation per year. This includes less than 25 hours per year at the Standby Power rating.

PRP (PRIME POWER) is available for an unlimited number of hours per year in variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 24 hours. The Total operating time at 100% Prime Power shall not exceed 500 hours per year. A 10% overload capability is available for a period of 1 hour within a 12 hours period of operation. Total operating time at the 10% overload power shall not exceed 25 hours per year.

COP (CONTINUOUS POWER) is defined as being the maximum power which the generating set is capable of delivering continuously whilst supplying a constant electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer.

※ Specifications are subject to change without prior notice.