

Diesel Generator Set

MPL1375P

Powered By Perkins



50 Hz / 1500 RPM



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MPL1375P



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPL1375P	50 Hz/1500 RPM	1375 kVA	1250 kVA
Powered by Perkins		1100 kW	1000 kW

Model: MPLxxCS - S Suffix for silent type

General Technical Data		
Model	MPL1375P	
Engine	Perkins 4012-46TWG2A	
Standard Voltage	400/230V	
Phase	3 Phase	
Stamford Alternator	S6L1D-G41	
Leroy Somer Alternator	LSA50.2 M6	
Other Alternator	n/a	
Speed Control Type	Electronic	
Controller Model	DSE7320	
Generator Set Fuel Consumption (L/hr)		

 Load-Standby Power (110%)
 287

 Load-Prime Power (100%)
 258

 Load-Prime Power (75%)
 196

 Load-Prime Power (50%)
 141

Multiphase Power Generators are in conformity with certification ISO 9001/ ISO14001/ISO18001 and our gensets are compliant with CE Standard. Best quality of electricity, high starting and loading capacity according to ISO8528-5. Ambient conditions of reference according to ISO 8528-1:2018 normative: 1000 mbar, 25°C, 30% relative humidity.

Prime Power (PRP):

According to ISO \$528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable 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. The permissible average power output (PPP) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP

Continuous Power (COP):

According to Standard ISO 8528-1:2018, this is the maximum power available for continuous loads for unlimited running hours a year between the maintenance times recommended by the manufacturer under the environmental conditions established by the same.

Generator Set Ratings						
Voltage Phase	Standby Rating			Prime Rating		
	KVA	KW	AMPS	KVA	KW	
415/240v	3	1375	1100	1913.0	1250	1000
400/230v	3	1375	1100	1984.7	1250	1000
380/220v	3	1375	1100	2089.2	1250	1000

Operating Environmental Requirement

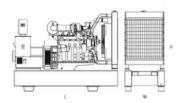
- Abmient Temperature : -25°C 50°C (Heater must be included when in low temperature)
- Himidity: Less than 80%
- Altitude: Up to 1000meters (For higher altitude application, please consult with Our Team)





DIMENSIONS

Weight And Dimensions	Open Type	Silent Type
Length (mm)	4800	12032
Width (mm)	2000	2352
Height (mm)	2520	2690
Net Weight (kg)	9000	15800
Fuel Tank Capacity (L)	n/a	n/a
Running Hours - 100% Load	n/a	n/a







DIESEL ENGINE SPECIFICATION

Manufacturer	Perkins	Engine Design	Standby Power	Prime Power
Engine Model	4012-46TWG2A	Gross Engine Output (KW)	1217	1106
Cylinders No./Arrangement	12 / V-Line	Net Engine Output (KW)	1166	1055
Compression Ratio	13:1	Brake mean effective pressure (kPa)	2124	1930
Cycle	Four Stroke	Engine Water Flow (L/min)	94	8
Aspiration Type	Turbocharged	Intake Air Flow (m³/min)	108	102
Bore x Stoke	160x190 mm	Exhaust Gas Flow (m³/min)	23	0
Displacement	45.8421 L	Exhaust Gas Temp (°C)	42	2



	Diesel Engine Specifications	
Lubrication System	Lubricating oil capacity (L)	177
	Oil pressure at Rated Speed (kPa)	400
	Normal Oil Temperature (°C)	95
	Type Injection System	Direct Injection
	Fuel injection pump	n/a
	Maximum fuel flow (L/hr)	1020
Fuel System	Fuel delivery pump pressure (kPa)	300
	Maximum suction head (kPa)	24.5
	Governor Type	Electronic
	Coolant Capacity – Engine Only (L)	73
Cooling System	Max. Top Tank Temperature (°C)	98
oooming oyotom	Thermostat operation range (°C)	71-85
Electrical System	Alternator	40 amps, 24 volts
	Starter Motor	16.4 kW, 24 volts
	Cold start recommendations to 0 °C (CCA)	810
Exhaust System	Max. Back Pressure (kPa)	
Industion System	Clean Filter (kPa)	2
	Dirty Filter (kPa)	4
	Air Filter Type	Medium duty axial flo

ALTERNATOR SPECIFICATION

Poles	4
Insulation	Class H
Protection Rating	IP23
Exciter System	Self-Excited, Brushless
AVR Regulatorion Range	±1%
Number Of Bearing	Single Bearing
Coupling System	Flexible Disc
Winding Pitch	2/3
Overspeed Protection	2250 R.P.M.

ALTERNATOR STANDARD FEATURES

- All models are brushless, rotating-field alternators
- Alternator meet the main international standard of IEC 60034, NEMA MG 1.32-33, BS 5000 Part 99, VDE 0530, ISO 8528/3
- The AVR voltage regulator provides superior short circuit capability
- Self-ventilated and dip proof construction
- Superior voltage waveform

Note: See Alternator Data Sheets for application data and ratings, efficiency curves, voltage dip with motor starting curves, and short circuit decrement curves





CONTROL SYSTEM DATA (DSE7320)



Main Feature

The DSE7320 will also monitor the mains (utility) supply. The modules include USB, RS232 and RS485 ports as well as dedicated DSENet® terminals for system expansion.

Key Function

- 4-Line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- · Customisable status screens
- Power save mode
- · Support for up to three remote display units
- 9 configurable inputs
- 8 configurable outputs
- · Flexible sender inputs
- Configurable timers and alarms
- 3 configurable maintenance alarms
- Multiple date and time scheduler
- Configurable event log (250)
- Integral PLC editor

- · Easy access diagnostic page
- · CAN and Magnetic Pick-up/Alt. sensing
- Fuel usage monitor and low fuel alarms
- Charge alternator failure alarm
- Manual speed control (on compatible CAN engines)
- Manual fuel pump control
- Power monitoring (kWh, kVAr, kVAh, kVArh)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Backed up real time clock
- · Start & stop capability via SMS messaging
- · USB connectivity
- Tier 4 CAN engine support
- DSENet ® expansion compatible etc.





OPTIONAL

Genset Optional Specifications		
Engine	Water Jacket Pre-Heater	
	Oil Pre-Heater	
	Fuel-Water Separator	
	Winding and Bearing Temperature Detector (RTD)	
Alternator	Anti-Condensation Heater (Space Heater)	
Alternator	PMG / AREP	
	Anti-Damp and Anti-Corrosion Treatment	
	ATS	
Electrical System	Remote Control and Monitoring	
Liectrical System	Synchronizing System	
	3/5 Pin sockets with RCBO protection	
	Bunded Double Wall Base Fuel Tank	
	Extended To Larger Capacity Base Tank	
Fuel System	Free-stand Daily Fuel Tank	
	Automatic Fuel Feeding System	
	Fuel T-valves	
Canony	Trailer	
Canopy	Rental Type Design	

Optional Controller Model			
ComAp Controller for Single Genset Application	ComAp Nano MRS3		
	ComAp AMF20		
	ComAp AMF25		
ComAp Controller for Multi Genset	ComAp IG200		
Application	ComAp IG-NT		
	DSE4520 MKII		
Deepsea Controller for Single Genset Application	DSE6020 MKII		
	DSE7320 MKII / DSE7420MKII		
Deepsea Controller for Multi Genset Application	DSE8610 MKII		
	DSE8810 MKII		

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