

Diesel Generator Set

MPL10P

Powered By Perkins

50 Hz / 1500 RPM





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MPL10P



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPL10P	EO U-/1EOO DDM	10 kVA	9 kVA
Powered by Perkins	50 Hz/1500 RPM	8 kW	7.2 kW

Model: MPLxxCS - S Suffix for silent type

General Technical Data	
Model	MPL10P
Engine	Perkins 403D-11G
Standard Voltage	400/230V
Phase	3 Phase
Stamford Alternator	PI044e or S0L1-H1
Leroy Somer Alternator	LSA40VS1 or TAL-A40-C
Other Alternator	n/a
Speed Control Type	Mechanical
Controller Model	DSE7320
Generator Set Fuel Consumption	(L/hr)
Load-Standby Power (110%)	3.1

2.7

2.7

1.5

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 8528-1:2018, 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	Dhasa	Standby Rating		Prime Rating		
	Phase	KVA	KW	AMPS	KVA	KW
415/240v	3	10	8	13.9	9	7.2
400/230v	3	10	8	14.4	9	7.2
380/220v	3	10	8	15.2	9	7.2

Operating Environmental Requirement

- Abmient Temperature : -25°C 50°C (Heater must be included when in low temperature)
- Himidity: Less than 80%

Load-Prime Power (100%)

Load-Prime Power (75%)

Load-Prime Power (50%)

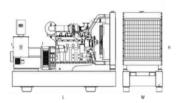
Altitude: Up to 1000meters (For higher altitude application, please consult with Our Team)





DIMENSIONS

Weight And Dimensions	Open Type	Silent Type
Length (mm)	1500	1900
Width (mm)	730	730
Height (mm)	1250	1140
Net Weight (kg)	430	600
Fuel Tank Capacity (L)	120	59
Running Hours - 100% Load	44.4	21.9







DIESEL ENGINE SPECIFICATION

Manufacturer	Perkins	Engine Design	Standby Power	Prime Power
Engine Model	403D-11G	Gross Engine Output (KW)	9.5	8.6
Cylinders No./Arrangement	3 / In-Line	Net Engine Output (KW)	9.3	8.4
Compression Ratio	21:1	Mean Piston Speed (m/s)	n/a	Э
Injection Type	Direct	Engine Water Flow (L/min)	27.	3
Aspiration Type	Naturally Aspirated	Intake Air Flow (m³/min)	0.7	7
Bore x Stoke	77x81 mm	Exhaust Gas Flow (m³/min)	1.8	1.66
Displacement	1.131 L	Exhaust Gas Temp (°C)	420	368





	Diesel Engine Specifications	
Lubrication System	Lubricating oil capacity-Total System (L)	4.9
	Minimum oil pressure (kPa)	120
	Normal Oil Temperature (°C)	125
	Oil flow at rated speed (L/min)	6.6
	Type Injection System	Direct
	Fuel injection pump	Cassette Type
	Nozzle opening pressure (MPa)	14.7
Fuel System	Fuel lift pump Flow (L/h)	63
	Fuel lift pump Pressure (kPa)	10
	Maximum suction head (M)	0.8
	Maximum static pressure head (M)	3
	Coolant Capacity - With Radiator (L)	5.2
On all and On atoms	Max. Top Tank Temperature (°C)	112
Cooling System	Max. static pressure head on pump (kPa)	30.4
	Thermostat operation range (°C)	75-87
Electrical System	Alternator	15 amps, 12 volts
	Starter Motor	1.4 kW, 12 volts
	Cold start recommendations 0 °C ~ -15 °C (CCA)	540
Exhaust System	Max. Back Pressure (kPa)	10.2

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	
donocr ppiloadon	DSE7320 MKII /DSE7420MKII	
Deepsea Controller for Multi Genset Application	DSE8610 MKII	
	DSE8810 MKII	

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