

Diesel Generator Set

MPL400P

Powered By Perkins



50 Hz / 1500 RPM



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MPL400P



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPL400P	50 Hz/1500 RPM	400 kVA	350 kVA
Powered by Perkins		320 kW	280 kW

Model: MPLxxCS - S Suffix for silent type

General Technical Data		
Model	MPL400P	
Engine	Perkins 2206C-E13TAG2	
Standard Voltage	400/230V	
Phase	3 Phase	
Stamford Alternator	HCI444E or S4L1D-E41	
Leroy Somer Alternator	LSA46.3L11 or TAL-A46-H	
Other Alternator	n/a	
Speed Control Type	Electronic	
Controller Model	DSE7320	
Generator Set Fuel Consumption (L/hr)		

Load-Prime Power (100%)

Load-Prime Power (75%)

Load-Prime Power (50%)

Load-Prime Power (50%)

Load-Prime Power (50%)

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						
Vallanda Disasa	Standby Rating			Prime Rating		
voltage	Voltage Phase	KVA	KW	AMPS	KVA	KW
415/240v	3	400	320	556.6	350	280
400/230v	3	400	320	577.4	350	280
380/220v	3	400	320	607.8	350	280

Operating Environmental Requirement

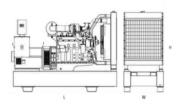
- Abmient Temperature : -25°C 50°C (Heater must be included when in low temperature)
- Himidity: Less than 80%
- Altitude: Up to 1000meters (For higher altitude application, please consult with Our Team)





DIMENSIONS

Weight And Dimensions	Open Type	Silent Type
Length (mm)	3220	4350
Width (mm)	1330	1400
Height (mm)	2010	2260
Net Weight (kg)	3200	4200
Fuel Tank Capacity (L)	600	670
Running Hours - 100% Load	8.0	8.9







DIESEL ENGINE SPECIFICATION

Manufacturer	Perkins	Engine Design	Standby Power	Prime Power
Engine Model	2206C-E13TAG2	Gross Engine Output (KW)	368.4	324.2
Cylinders No./Arrangement	6 / In-Line	Net Engine Output (KW)	349	305
Compression Ratio	16.3:1	Brake mean effective pressure (kPa)	2356	2061
Cycle	Four Stroke	Engine Water Flow (L/s)	5.3	3
Aspiration Type	Turbocharged and Air-to-Air Charge Cooling	Intake Air Flow (m³/min)	26.2	25.2
Bore x Stoke	130x157 mm	Exhaust Gas Flow (m³/min)	71.8	67.3
Displacement	12.5 L	Exhaust Gas Temp (°C)	630	630



	Diesel Engine Specifications	
Lubrication System	Lubricating oil capacity (L)	40
	Oil pressure at Bearing (kPa)	310
	Normal Oil Temperature (°C)	113
	Type Injection System	MEUI
	Fuel injection pump	MEUI
Fuel System	Maximum fuel flow (L/min)	480
	Maximum suction head (m)	3
	Maximum static pressure head (m)	4
	Maximum fuel temperature at fuel pump inlet (°C)	55
	Coolant Capacity – With Radiator (L)	51.4
Cooling System	Max. Top Tank Temperature (°C)	104
Cooling System	Thermostat operation range (°C)	87-98
	Alternator	70 amps, 24 volts
Electrical System	Starter Motor	7.8 kW, 24 volts
	Cold start recommendations 0 °C ~ -10 °C (CCA)	588
Exhaust System	Max. Back Pressure (kPa)	10
	Clean Filter (kPa)	2.5
Industion System	Dirty Filter (kPa)	6.4
	Air Filter Type	Paper Element

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	
Lieuticai 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		
фринцин	DSE7320 MKII /DSE7420MKII		
Deepsea Controller for Multi Genset Application	DSE8610 MKII		
	DSE8810 MKII		

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