



MULTIPHASE
POWER

Diesel Generator Set

MPC450S

Powered By Cummins

50 Hz / 1500 RPM



MULTIPHASE CORPORATION CO., LTD.

90 CW Tower, Room No.A2102, 21st Floor, Ratchadapisek Road,
Kwaeng Huai Khwang, Khet Huai Khwang, Bangkok 10310

Tel: +66 02 168 3193-5 #109 Fax: +66 02 168 3192

Email: marketing@multiphase-corp.com Website: www.multiphase-power.com

Facebook: www.facebook.com/MultiphasePower Line ID: @multiphasepower



MPC450S



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPC450S Powered by Cummins	50 Hz/1500 RPM	500 kVA	450 kVA
		400 kW	360 kW

- Model : MPCxxCS – S Suffix for silent type

GENERAL INFORMATION

Model	MPC450S
Engine	Cummins QSZ13-G5
Rated Voltage	400V
Phase	3 Phase
Stamford Alternator	Stamford S5L1D-C4
Other Alternator	n/a
PF	0.8
Controller Model	DSE7320

Applicable Standards

- ISO 8528-5:2018
- GB/T2820.5-2009
- CE

Environmental Conditions

- Ambient Temperature: +5C - +40C
- Altitude: 1000m

Remark: If your conditions are different from the above, Please contact our sales.

Factory Inspection

- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% Load Test.
- Function Test
- Protection Test
- Visual Inspection

ENGINE SPECIFICATION

Engine Model	Cummins QSZ13-G5
Emission	n/a
Cylinder Arrangement	Vertical inline
Number of Cylinders	6
Cycle	4 Stroke
Aspiration	Turbocharged
Bore x Stroke (mm)	130 x 163 (mm)
Displacement (L)	n/a
Speed Governor	ECM

Engine Gross Prime Power	411
Engine Gross Max. Power	470
Lube-oil Capability (L)	75.33
Fuel Consumption @110% load (L/h)	102.52
Fuel Consumption @100% load (L/h)	93.2
Fuel Consumption @75% load (L/h)	69.9
Fuel Consumption @50% load (L/h)	46.6
Starter Motor / Charger Alternator	24 vdc
Switchable	Y

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ALTERNATOR SPECIFICATION

Alternator Model	Stamford S5L1D-C4	Rated Speed (RPM)	1500
Rated Output Power (kVA)	500	IP Protection Class	IP 23
Alternator Type	Brushless	Insulation Grade	H
Poles	4	Winding Pitch	2/3
Exit Leads	12	Bearing	Single
Rated Voltage (V)	400	Coupling	Flexible Disc

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
- 9 configurable inputs
- 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)
- Power monitoring (kWh, kVAR, kVAh, kVArh)
- 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.

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