



**MULTIPHASE
POWER**

Diesel Generator Set

MPC450SC

Powered By SDEC

50 Hz / 1500 RPM



MULTIPHASE CORPORATION CO., LTD.

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MPC450SC



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPC450SC Powered by SDEC	50 Hz/1500 RPM	500 kVA	450 kVA
		400 kW	360 kW

- Model : MPCxxCS – S Suffix for silent type

GENERAL INFORMATION

Model	MPC450SC	Applicable Standards <ul style="list-style-type: none"> ISO 8528-5:2018 GB/T2820.5-2009 CE Environmental Conditions <ul style="list-style-type: none"> Ambient Temperature: +5C - +40C Altitude: 1000m Remark: If your conditions are different from the above, Please contact our sales.
Engine	SDEC 6ETAA12.8-G31	
Rated Voltage	400V	
Phase	3 Phase	
Stamford Alternator	Leroy Somer TAL-A473-B	
Other Alternator	n/a	
PF	0.8	
Controller Model	DSE7320	
		Factory Inspection <ul style="list-style-type: none"> Complete design and quality inspection 0%, 25%, 50%, 75%, 100%, 110% Load Test. Function Test Protection Test Visual Inspection

ENGINE SPECIFICATION

Engine Model	SDEC 6ETAA12.8-G31	Engine Gross Prime Power	401
Emission	China T3	Engine Gross Max. Power	441
Cylinder Arrangement	Vertical inline	Lube-oil Capability (L)	36
Number of Cylinders	6	Fuel Consumption @110% load (L/h)	105.38
Cycle	4 Stroke	Fuel Consumption @100% load (L/h)	95.8
Aspiration	Turbocharged and Charge Air Cooled	Fuel Consumption @75% load (L/h)	71.85
Bore x Stroke (mm)	130 x 161 (mm)	Fuel Consumption @50% load (L/h)	47.9
Displacement (L)	12.8 L	Starter Motor / Charger Alternator	24 vdc
Speed Governor	ECU	Switchable	N

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ALTERNATOR SPECIFICATION

Alternator Model	Leroy Somer TAL-A473-B	Rated Speed (RPM)	1500
Rated Output Power (KVA)	455	IP Protection Class	IP 23
Alternator Type	Brushless	Insulation Grade	H
Poles	4	Winding Pitch	2/3
Exit Leads	6	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
- 8 configurable outputs
- Flexible sender inputs
- 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, kVAh, kVAh, kVAh)
- Load switching (load shedding and dummy load outputs)
- Automatic load transfer (DSE7320)
- Start & stop capability via SMS messaging
- USB connectivity
- Tier 4 CAN engine support
- DSENet® expansion compatible etc.

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