



**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

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

## ENGINE SPECIFICATION

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

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## ALTERNATOR SPECIFICATION

<b>Alternator Model</b>	Leroy Somer TAL-A473-B	<b>Rated Speed (RPM)</b>	1500
<b>Rated Output Power (KVA)</b>	455	<b>IP Protection Class</b>	IP 23
<b>Alternator Type</b>	Brushless	<b>Insulation Grade</b>	H
<b>Poles</b>	4	<b>Winding Pitch</b>	2/3
<b>Exit Leads</b>	6	<b>Bearing</b>	Single
<b>Rated Voltage (V)</b>	400	<b>Coupling</b>	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, kVAR, kVAh, kVArh)
- 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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