



**MULTIPHASE  
POWER**

Diesel Generator Set

# MPK-C100P

Powered By Cummins

50 Hz / 1500 RPM



**MULTIPHASE CORPORATION CO., LTD.**

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# MPK-C100P



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPK-C100P Powered by Cummins	50 Hz/1500 RPM	88 kW	80 kW
		110 kVA	100 kVA

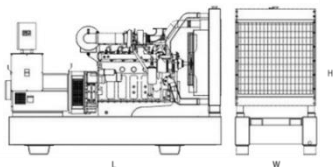
- Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V
- All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53 inHg), air temperature 25 °C (77 °F), relative humidity 30%.
- Diesel generators comply with standards : ISO8528, ISO14000, ISO3046, GB755, BS5000, VDE0530, IEC34-1
- Model : MPYxxCS – S Suffix for silent type

## GENERAL CHARACTERISTICS

Model	MPK-C100P
Engine	Cummins 4BTA3.9-G3
Alternator	Leroy Somer TAL-A44-D
Controller Model	DSE6120
Voltage (V)	380-415
Connection	3 Phase
Fuel Cons 100% (L/H)	24.7
Recommended Battery (Ah)	60 (2 ea)
Rated Power Factor	0.8

## DIMENSIONS

DIMENSIONS	OPEN TYPE	SILENT TYPE
Length (L)	1900 mm	2602 mm
Width (W)	860 mm	1100 mm
Height (H)	1417 mm	1525 mm
Net Weight (KG)	1150 kg	1650 kg
Fuel Tank (L)	130 L	160 L



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## ENGINE SPECIFICATION

<b>Engine Model</b>	Cummins 4BTAA3.9-G3	<b>Total Lub. System Capacity</b>	10.9 L
<b>Number of Cylinders</b>	4	<b>Coolant Capacity (with radiator)</b>	7.2 L
<b>Cylinder Arrangement</b>	In-Line	<b>Speed Stability (%)</b>	≤ 5%
<b>Cycle</b>	4 Stroke	<b>Start Type</b>	Electrical
<b>Aspiration</b>	Charge Air Cooled	<b>Max. Exhaust Temperature</b>	410 °C
<b>Bore × Stroke</b>	102 × 120 mm	<b>Exhaust Gas Flow</b>	190 L/S
<b>Displacement</b>	3.9 L	<b>Max. Allowed Back Pressure</b>	10 kPa
<b>Compression Ratio</b>	18.0:1	<b>Intake Air Flow</b>	10.5 m <sup>3</sup> /min
<b>Prime Power/Speed</b>	96/1500 (kW/rpm)	<b>Cooling Air Flow</b>	2.2 L/S
<b>Standby Power/Speed</b>	106/1500 (kW/rpm)	<b>Consumption @100% Load ESP</b>	27.6 L/H
<b>Speed Governor</b>	Electronic	<b>Consumption @100% Load PRP</b>	24.7 L/H
<b>Cooling System (Open Type)</b>	40 °C Tropical Radiator	<b>Consumption @75% Load PRP</b>	18.2 L/H
<b>Cooling System (Silent Type)</b>	50 °C Tropical Radiator	<b>Consumption @50% Load PRP</b>	12.3 L/H

## ALTERNATOR SPECIFICATION

<b>Alternator Brand</b>	Leroy Somer TAL-A44-D	<b>Voltage Adjust Range</b>	≥ 5%
<b>Alternator Model</b>	TAL-A44-D	<b>Voltage Regulation NL-FL</b>	≤± 1.0%
<b>Exciter Type</b>	Brushless, Self-Excited	<b>Insulation Grade</b>	H
<b>Power Factor</b>	0.8	<b>Protection Grade</b>	IP23

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## CONTROLLER FUNCTIONS (DSE6120)



OPTIONAL CONFIGURATION	STAND-ALONE BASIC
Voltage between phases	•
Voltage between neutral and phase	•
Current intensities	•
Frequency	•
Apparent power (kVA)	•
Active power (kW)	•
Reactive power (kVAr)	•
Power factor	•
Coolant Temperature	•
Oil Pressure	•
Battery Voltage	•
R.P.M.	•
Battery Charge Alternator Voltage	•
High Water Temperature by Sensor	•
Unexpected Shutdown	•
Fuel Storage by Sensor	•
Stop Failure/Start Failure	•
Overspeed/Underspeed	•
Emergency Stop	•

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