



**MULTIPHASE
POWER**

Diesel Generator Set

MPK-C1 15P

Powered By Cummins

50 Hz / 1500 RPM



MULTIPHASE CORPORATION CO., LTD.

90 CW Tower, Room No.A2102, 21st Floor, Ratchadapisek Road,

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MPK-C115P



MODEL	FREQUENCY / RPM	STANDBY POWER	PRIME POWER
MPK-C115P Powered by Cummins	50 Hz/1500 RPM	100 kW	92 kW
		125 kVA	115 kVA

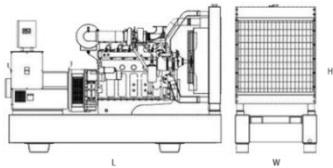
- Available for voltages 400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V
- All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53 inHg), air temperature 25 °C (77 °F), relative humidity 30%.
- Diesel generators comply with standards : ISO8528, ISO14000,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

GENERAL CHARACTERISTICS

Model	MPK-C115P
Engine	Cummins 6BTA5.9-G2
Alternator	Leroy Somer TAL-A44-E
Controller Model	DSE6120
Voltage (V)	380-415
Connection	3 Phase
Fuel Cons 100% (L/H)	27
Recommended Battery (Ah)	80 (2 ea)
Rated Power Factor	0.8

DIMENSIONS

DIMENSIONS	OPEN TYPE	SILENT TYPE
Length (L)	2250 mm	2900 mm
Width (W)	870 mm	1100 mm
Height (H)	1530 mm	1620 mm
Net Weight (KG)	1500 kg	2000 kg
Fuel Tank (L)	220 L	300 L



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ENGINE SPECIFICATION

Engine Model	Cummins 6BTA5.9-G2	Total Lub. System Capacity	16.4 L
Number of Cylinders	6	Coolant Capacity (with radiator)	10 L
Cylinder Arrangement	Vertical In-Line	Speed Stability (%)	≤ 5%
Cycle	4 Stroke	Start Type	Electrical
Aspiration	Jacket Water Aftercooled	Max. Exhaust Temperature	570 °C
Bore × Stroke	102 × 120 mm	Exhaust Gas Flow	334 L/S
Displacement	5.9 L	Max. Allowed Back Pressure	10 kPa
Compression Ratio	17.3:1	Intake Air Flow	108 L/S
Prime Power/Speed	106/1500 (kW/rpm)	Cooling Air Flow	2.0 L/S
Standby Power/Speed	116/1500 (kW/rpm)	Consumption @100% Load ESP	30.0 L/H
Speed Governor	Electronic	Consumption @100% Load PRP	27.0 L/H
Cooling System (Open Type)	40 °C Tropical Radiator	Consumption @75% Load PRP	20.0 L/H
Cooling System (Silent Type)	50 °C Tropical Radiator	Consumption @50% Load PRP	14.0 L/H

ALTERNATOR SPECIFICATION

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