

OMD Series Generator Set Technical Specification

Generator Set:

Power Factor	0.8 (Lagging)		
Frequency	Voltage	Current	Standby Power
50Hz	AC400/230V	180A	138KVA/110KW
Speed			Prime power
1500rpm			125KVA/100KW

Main Technical Parameters of Engine

Engine Model	M6M198D
Engine Power (KW)	145
Mode	In-line, water-cooled, four-stroke, direct injection
Number of Cylinders	6
Bore × Stroke (mm)	φ 105/135
Displacement (L)	7.02
Compression Ratio	16:1
Cylinder Firing Order	1-5-3-6-2-4
Air Intake Method	Turbocharged & Intercooled
Governing System	Mechanical Governing / Electronic Governing (Optional)
Starting Mode	Electric Start 24V
Cooling Method	Forced Water Cooling
Total Coolant Capacity (L)	24.5
Coolant Outlet Temperature (°C)	≤90
Rated Power/Speed (kW/r/min)	132kW/1500 145kW/1500
Maximum No-Load Speed (r/min)	≤1575/1890
Minimum Stable Idle Speed (r/min)	≤600
Fuel Consumption Rate (g/kW·h)	215
Lubrication Class	CD
Oil Pressure at Rated Condition	0.3 ~ 0.50 Mpa
Fuel Injection Timing (BTDC)	17° ±1°
Valve Clearance (mm)	0.30 ~ 0.40
Crankshaft Rotation Direction	Counterclockwise (viewed from power output end)
Lubricating Oil Sump Capacity (L)	18
Lubricating Oil Consumption Rate (g/kW·h)	≤1.63
Exhaust Temperature (°C)	≤600

Technical Parameters of Alternator

Alternator Brand	OMD
Alternator Model	OMDL-120-4
Number of Bearings	1
Insulation Class	H
Steady-State Voltage Deviation	≤±2.5%

Protection Class	IP21
Coil Pitch	2/3
Winding Configuration	12
Excitation Method	Brushless Self-Excited
Power Factor	0.8 (Lagging)
Alternator Efficiency	93.30%

Power Definitions

Prime power: The maximum power that the generator set can continuously deliver within 24 hours under specified maintenance intervals and environmental conditions. Also referred to as continuous power.

Standby Power : The overload power that the generator set can deliver for 1 hour within every 12 hours under specified maintenance intervals and environmental conditions. This is 10% higher than the rated power and is commonly referred to as maximum power.

Standard Reference Conditions:

- 1) Ambient Temperature: 25°C
- 2) Altitude: $\leq 2000\text{m}$
- 3) Relative Humidity: 30%

Dimension & Weight

	Length	Width	Height	Weight
Net Dimensions & Weight (Open type)	2300mm	800mm	1300mm	1020kg
Net Dimensions & Weight (Silent type-Container)	3000mm	1300mm	1800mm	1780kg

Electronic Governing Generator Set:

