

Technical parameters of ZCM100P diesel generator sets

Technical parameters		
Model		ZCM100P
Dimension (L×W×H)	mm	2268×785×1298
Weight	kg	1460
Prime power	kVA/kW	125/100
Standby power	kVA/kW	132.5/106
Rated voltage	V	400/230
Output frequency	Hz	50
Steady voltage regulation rate	%	±1
Voltage fluctuation rate	%	≤0.5
Frequency fluctuation rate	%	≤0.5
Sudden load frequency stable time	s	≤3
Sudden load voltage stable time	s	≤2
Wire mode		3-phase 4-wire
Control system		micro-processor control system
Damping system		high-elasticity rubber damper
Engine		
Engine model		6BTAA5.9-G
Dimension (L×W×H)	mm	996×711×992
Weight	kg	413
Power (prime\standby)	kW	120/132
Engine type		6 in-line

Oil type		API CF SAE 15W-40
Fuel type		0#diesel
Fuel consumption rate	g/kWh	215
Oil consumption rate	g/kWh	0.5% of fuel consumption
Start mode		24V DC Electro-start
Speed regulating mode		Electro-regulation
Cooling method		Closed circulation water cooled
Cooling air flow	m ³ /min	240
Combustion air flow	m ³ /min	9.3
Fan power consumption	kW	5
Exhaust temperature	°C	500
Piston speed	m/s	10
Air intake area (Min.)	m ²	0.9
Air exhaust area (Min.)	m ²	0.6
Lube oil capacity	L	24
Cooling system capacity	L	14 (only for engine)
Compression ratio		17:1
Combustion mode		direct injection type
Bore\Stroke	mm	102/120
Displacement of single cylinder	L	0.983
Flywheel interface size (flywheel shell / flywheel)		SAE3/11.5
Exhaust back pressure (Max.)	kPa	10.2

Generator		
Model (single bearing)		MP-104-4
Dimension (L×W×H)	mm	803×464×708
Weight	kg	455
Power (prime\standby)	kW	104/106
Excitation system		Brushless self-excitation
Protection		IP21
Insulation class		H
Winding pitch		2/3
Steady voltage regulation rate		±1%
Recovery time	s	≤1.0
Waveform deviation rate	THD	≤3%
Telephone harmonic factor	THF	≤2%
Telephone interference factor	TIF	≤50
Control system		
Control module		Zhongzhi 170HC (automatic type)
Displayed contents		Over-speed, oil pressure, water temperature, charge fail, alarm fault, etc.
Main functions		High water temperature, low oil pressure, over-speed, start fail, manual start control, and remote start control, with expansion.