

Technical parameters of ZCM42P diesel generator sets

Technical parameters		
Model		ZCM42P
Dimension (L×W×H)	mm	1735×732×1242
Weight	kg	1060
Prime power	kVA/kW	52.5/42
Standby power	kVA/kW	57.5/46
Rated voltage	V	400/230
Output frequency	Hz	50
Rated power factor (lag)	Cosφ	0.8
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
Waveform deviation rate	THD	≤5%
Wire mode		3-phase 4-wire (neutral point grounding)
Control system		micro-processor control system
Damping system		high-elasticity rubber damper
Noise (7 meter)	dB	92
Engine		
Engine model		4BTA3.9-G2
Dimension (L×W×H)	mm	765×582×908

Weight	kg	320
Power (prime\standby)	kW	50/55
Engine type		4 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	180
Combustion air flow	m ³ /min	5.9
Piston speed	m/s	10
Air intake area (Min.)	m ²	0.9
Air exhaust area (Min.)	m ²	0.5
Lube oil capacity	L	11
Cooling system capacity	L	8 (only for engine)
Compression ratio		16.5:1
Combustion mode		direct injection type
Bore\Stroke	mm	102/120
Displacement of single cylinder	L	0.975
Flywheel interface size (flywheel shell / flywheel)		SAE3/11.5

Exhaust back pressure (Max.)	kPa	10.2
Generator		
Model (single bearing)		MP-48-4
Dimension (L×W×H)	mm	632×464×708
Weight	kg	262
Power (prime\standby)	kW	48/50
Rated voltage	V	400/230
Frequency	Hz	50
Pole		4 poles
Excitation system		Brushless self-excitation
Short-circuit current capability		300% (3In) : 10s
Protection		IP21
Winding pitch		2/3
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.