

## Technical parameters of ZCM80P diesel generator sets

Technical parameters		
Model		ZCM80P
Dimension (L×W×H)	mm	2120×785×1235
Weight	kg	1370
Prime power	kVA/kW	100/80
Standby power	kVA/kW	110/88
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		6BT5.9-G2
Dimension (L×W×H)	mm	996×711×992

Weight	kg	399
Power (prime\standby)	kW	92/100
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 <sup>3</sup> /min	180
Combustion air flow	m <sup>3</sup> /min	5.9
Piston speed	m/s	10
Air intake area (Min.)	m <sup>2</sup>	0.9
Air exhaust area (Min.)	m <sup>2</sup>	0.5
Lube oil capacity	L	16.4
Cooling system capacity	L	11 (only for engine)
Compression ratio		17.5:1
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
<b>Generator</b>		
Model (single bearing)		MP-80-4
Dimension (L×W×H)	mm	764×489×710
Weight	kg	431
Power (prime\standby)	kW	80/88
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
<b>Control system</b>		
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.