

# TECHNICAL SPECIFICATION

## CUMMINS POWERED GENERATOR SETS: M-C50


### Quality Standards


Our diesel generating sets meets the following standards:  
GB/T2820, GB1105, YD/T502, ISO3046, ISO8525, ISO8525-3-5-6.

### Factory Test

Each our generating sets must be got through 1 hour load test for running 0%, 25%, 50%,75%, 100% and 110% load before dispatch, All protective devices, control functions are simulated and it's system checked, proved and then passed for dispatch. A test certificate can be provided upon request.

## MAIN SPECIFICATIONS OF GENERATOR SETS

<i>Diesel Generator Set</i>		
<b>GENSET MODEL NOS.</b>	<b>M-C50</b>	
Manufacturer	Intercon Modular, (China) LLC	
Rated speed / frequency	1500 rpm / 50 Hz	
Continuous output (KW/KVA)	36/45	
Standby output (KW/KVA)	40/50	
Voltage, Phase and wire	400V/230V, 3 Phase and 4 Wires	
Rated power factor	0.8 (lagging)	
Maximum output current(A)	72	
Genset type	Open type	Silent type
Dimension (mm)	1800*980*1350	2240*980*1680
Weight (kg)	1070	1370
<b>Rating Definitions</b> (Operation at Altitude $\leq$ 1000m, Ambient temperature $\leq$ 40°C)		
<b>Continuous Power</b>		
These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.		
<i>Diesel Engine</i>		
<b>DIESEL ENGINE MODEL</b>	 <b>4BTA3.9-G (Cummins)</b>	
<b>Engine Characters</b>	Water-cooled, 4 cylinders in line, 4-cycle, direct injection	
The maximum output (kW)	60	
Aspiration	Turbocharged	
Bore(mm)× Stroke (mm)	102X120	
Fuel consumption(g/kw.h)	$\leq$ 200	
Cubic Capacity (Liters)	3.92	
Exhaust air flow(m3/min)	136.2	
Compress air flow(m3/min)	4.13	

Exhaust gas flow(m3/min)	9.96	
Exhaust highest temperature	475°C	
Lub-oil pan capacity(L)	11	
Cooling water capacity(L)	28	
Voltage for start(V)	24	
Instrument for adjusting speed	Mechanical	
Noise level(A)	≤92dBA(open),	≤70dBA(silent),
<b>ALTERNATOR</b>		
<b>ALTERNATOR MODEL</b>	 <b>LSA 43.2 S25 (Leroy Somer)</b>	
Excitation	Brushless	
Insulation class	H	
Protection class	IP23	
Efficiency	91.9%	
Voltage Regulation	±1% with 4% engine governing	
Waveform Distortion	No load<1.5% and non-distorting balanced linear load<5%	
THF/TIF	<2%/50%	



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