

## CUMMINS POWERED GENERATOR SETS LG80C 50Hz

**Prime Power**            **58kw / 73kva**  
**Standby Power**        **64kw / 80kva**  
**Voltage available**    **380/220v, 400/230v,415/240v**


### 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

<b>DIESEL GENERATOR SETS</b>		
<b>GENSET MODEL NOS.</b>	<b>LG80C</b>	
Rated speed / frequency	1500 rpm / 50 Hz	
Prime output (KW/KVA)	58/73	
Standby output (KW/KVA)	64/80	
Voltage, Phase and wire	400/230v, 3 Phase and 4 Wires	
Rated power factor	0.8 (lagging)	
Maximum output current(A)	115	
Genset type	Open type	Silent type
Dimension(L*W*H) (mm)	1850*950*1500	2670*1080*1865
Weight(kg)	1270	1550
<p><b>Rating Definitions</b> (Operation at Altitude <math>\leq 1500\text{m}</math>, Ambient temperature <math>\leq 40^\circ\text{C}</math>).            If altitude higher than 1500m, each 100m will cause additional de-rating 1%.</p> <p><b>Prime 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.</p> <p><b>Standby Power</b>            These ratings are applicable for supplying continuous electrical power( at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO8528-3) at 27°C</p>		
<b>DIESEL ENGINE</b>		
<b>ENGINE BRAND</b>		
<b>Engine model</b>	<b>4BTA3.9-G11</b>	
<b>Engine Characters</b>	Water-cooled, 4 cylinders in line, 4-cycle, direct injection	

The maximum output (kW)	80
Aspiration	Turbocharged
Bore(mm)×Stroke (mm)	102X120
Compression ration	17.3:1
Fuel consumption(L/H)	17.6(100% load)
Displacement(Liters)	3.9
Intake air flow(L/sec)	70
Exhaust gas flow(L/sec)	134
Exhaust highest temperature	548℃
Lube-oil capacity(L)	10.9
Cooling water capacity(L)	8.3Liters (Engine Only)
Voltage for start(V)	24
Instrument for adjusting speed	Electronically
<b>ALTERNATOR</b>	
<b>ALTERNATOR BRAND</b>	
<b>Alternator model</b>	<b>UCI224F</b>
Excitation	Brushless, Self-excited
Insulation class	H
Protection class	IP23
Connection type	Re-connectable
Voltage Regulation	≤1.0%
Waveform Distortion	No load<1.5% and non-distorting balanced linear load<5%
THF/TIF	<2%/50
<b>GENERATING SET CONTROL SYSTEM</b>	
<p>AC/DC control panel consisting of:</p> <ul style="list-style-type: none"> <li>✦ Emergency Stop button</li> <li>✦ Controller with selection for auto-start, AMF monitoring and with following (and not restricted to) features: <ul style="list-style-type: none"> <li> Start/Stop button</li> <li> Hour run meter</li> <li> Monitor engine temperature and provides shutdown protection</li> <li> Monitor engine speed and provides shutdown protection</li> <li> Monitor oil pressure and provides shutdown protection</li> <li> Alarm output for abnormal operation</li> </ul> </li> </ul>	

**STANDARD FEATURE & OPTIONAL**

Item	Standard	Optional
Air Inlet system	<ul style="list-style-type: none"> <li>⌘ Heavy duty Air Cleaner</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Air pre-heater</li> </ul>
Cooling system	<ul style="list-style-type: none"> <li>⌘ Radiator with guard sized for 50°C</li> <li>⌘ Coolant drain line with valve</li> <li>⌘ Fan and belt guards</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Radiator duct flange</li> <li>⌘ Remote Radiator cooling</li> <li>⌘ Low Coolant Level shut down sensor</li> </ul>
Exhaust system	<ul style="list-style-type: none"> <li>⌘ Industrial exhaust muffler for open type</li> <li>⌘ Residential exhaust muffler for silent type</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Residential 35dBA muffler</li> <li>⌘ Manifold and turbocharger guards</li> </ul>
Control system	<ul style="list-style-type: none"> <li>⌘ Deep Sea 7320 control panel with AMF function</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Manual transfer panel,</li> <li>⌘ Automatic transfer Panel,</li> <li>⌘ Fully Automatic Synchronizing and load Sharing Panel,</li> <li>⌘ Manual Synchronizing Panel.</li> </ul>
Alternator & Breaker	<ul style="list-style-type: none"> <li>⌘ Class H insulation</li> <li>⌘ Automatic Voltage Regulator</li> <li>⌘ IP23 Protection</li> <li>⌘ ABB brand circuit breaker</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Oversize and premium generators</li> <li>⌘ Three phase sensing</li> <li>⌘ Space heater</li> <li>⌘ PMG</li> </ul>
Lube system	<ul style="list-style-type: none"> <li>⌘ Lubricating oil filter</li> <li>⌘ Oil drain with valves</li> <li>⌘ Lube oil pressure indicator</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Manual sump pump</li> <li>⌘ Lubricant oil pre-heater</li> </ul>
Fuel system	<ul style="list-style-type: none"> <li>⌘ Fuel filter</li> <li>⌘ 8 hours base fame fuel tank</li> <li>⌘ Fuel level shut down sensor</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Dual Wall Integral Fuel Tanks</li> <li>⌘ Dual Wall Sub-base Fuel Tanks</li> <li>⌘ Automatic Fuel Fill Options</li> </ul>
Starting / Charging system	<ul style="list-style-type: none"> <li>⌘ Battery charging alternator</li> <li>⌘ 24 volt starting motor(s)</li> <li>⌘ Maintain free battery with rack and cables</li> <li>⌘ Battery charger</li> </ul>	<ul style="list-style-type: none"> <li>⌘ Jacket water heater</li> </ul>

Distributor Local-Local Dealer

**In line with our policy of continuous product development, we reserve our right to change the above specifications without notice.**