



# JCB DIESEL GENERATOR TECHNICAL SPECIFICATIONS



## G160QI

ELECTRICAL			
FREQUENCY	VOLTAGE	PRIME	STAND BY
50Hz	415 / 240V	160kVA / 128kW	176kVA / 140.8kW
Rated Speed	1500 rpm		
Circuit Breaker	4 pole protection		
Power Factor / Phase	0.8 / 3 phase		

All ratings to standard reference conditions ISO8528

ALTERNATOR	
Model	Mecc Alte ECP34-2L4C
Poles	4 pole
Winding Connections	Star
Insulation	Class H
Enclosure	IP23
Exciter System	Self-regulating brushless
Voltage Regulator	DSRL
Steady State Voltage Regulation	+/- 1.0%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan

MAXIMUM LOAD ACCEPTANCE IN A SINGLE STEP
60%

**Prime:** The maximum power which the generating set is capable of delivering continuously while supplying a variable electrical load. Average load should be 70% of prime power rating. There is no limitation on the annual hours of operation and 10% overload power can be supplied for 1 hour per 12 hrs.

**Standby:** The max power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hrs of operation per year. Average load should be 70% of standby power rating. No overload is permitted.

ENGINE			
Make & Model		M&M 160kVA Mech CPCB II	
Output Rating	kW	146.5	
Engine BHP		199	
Fuel		Diesel	
Injection		Direct	
Aspiration		Turbo Charged after cooled	
Cylinders		6	
Displacement	liter	7.12	
Cooling		Water	
Engine Oil Specification		15W40 API CI4+	
Compression Ratio		16.8:1	
Engine Oil Capacity	liter	19.8	
Oil Consumption	% of fuel consumed	<0.1	
Coolant capacity	liter	25	
Governor		Mechanical	
Air Filter		2 stage paper element	
Fuel Consumption	50% Load	l/h	20.8
	75% Load	l/h	27.8
	100% Load	l/h	36.5

STARTING SYSTEM		
Starter Motor	kW	4.2
Battery Capacity	Ah	150
Auxiliary Voltage	V	24

EXHAUST SYSTEM		
Maximum Temperature 100% Standby	°C	600
Exhaust Gas Flow 100% Standby	kg/h	664
Maximum Allowed Back Pressure	mbar	100

AIR SYSTEM		
Maximum allowed air intake depression	mbar	60
Air flow at Standby rating	kg/h	637

FUEL SYSTEM		
Diesel Specification		HSD
Fuel Tank Capacity	liter	310
Base Frame Thickness	mm	2.5

WEIGHT AND DIMENSIONS		
Length	mm	3750
Width	mm	1300
Height	mm	1750
Dry Weight (Standard Build inclusive of coolant and oil)	kg	2300
Sound Level @ 1m	dB	Less than 75

CONTROL PANEL		
Body	mm	1.5 sheet Steel
Controller	Deepsea 4520	Liveline option enabled
MCCB	A	250

Display parameters	Audio-Visual warning	Shut-down with Audio-visual annunciation
Engine RPM	Low Oil pressure	Low Oil Pressure
Coolant temperature	High Coolant temp.	High coolant temp.
DG set hours run	Fail to start.	Low Fuel level
Fuel level Indication %	Low Battery Voltage	Engine Over speed
Battery Voltage	High Battery Voltage	Engine under speed
Gen. Volts ( Phase- neutral & Phase-Phase )	Over Voltage	Over Current
Gen. Current ( Amps.)	Under Voltage	Under voltage
Gen. Frequency ( Hz.)	Low fuel level	Over voltage
Power factor	Fail to stop	Over frequency
kVAr	Charging alt. Failure	Under frequency
kW		Water in Fuel
kVA		Emergency Stop
Charging Alternator Voltage		
Real time Clock		

- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO8528
- Power according to ISO3046
- Information based on standard specification equipment unless otherwise stated
- Conformance Standards IS 1460,ISO8528,ISO3046,IS13018
- Fuel Consumption data is based on Diesel having specific gravity of 0.85 & conforming to IS 1460 & fuel consumption tolerance is +5%
- Oil consumption data is based on oil with 0.89 Specific gravity.

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**NEW** JCB GENERATORS



\*T&C Apply.

**SUPPORTING LIFE 24x7**

Available Range: 63 kVA - 200kVA



## SUPPORTING YOUR POWER NEEDS

JCB Power Products offer an extensive range of high specification diesel generators to meet the customers' requirements for any power application globally. Each JCB generator is designed to the highest specification to deliver outstanding reliability, class-leading performance and increased efficiency.

JCB Generators offer power solutions ranging from 8 kVA to 3300 kVA, meeting all requirements globally.

Backed by finest product support team for the entire product range, JCB Generators are trusted across the world to deliver power applications. The comprehensive range of generators provide support to residential properties, hospitals, offices, educational institutions, hotels & restaurants, commercial & agricultural sector, food industry and many more.



Housing Societies



Rental



Hospitals



Educational Institutions



Hotels



Real Estate



SMEs



Constructions

# 125 kVA Generator



## Fuel Efficient

- Lowest cost per hour
- Save more than ₹2,75,000\* with JCB 125 kVA on 5000 hours running
- Save over ₹1,65,000\* with JCB 160 kVA on 5000\* hours running



## Best-in-class Aesthetics

- Curved edges
- Built-in silencer
- Nine stage powder paint finish for both canopy and skid



## Compact in Size

- Easy to load and manoeuvre between sites
- Built-in silencer and best LAT



## Single Window Product Support

- Product support for entire product range through world-class dealer network



## Safe and Sturdy

- Complete body earthing
- External and internal emergency stop button
- Top vent and rain cap
- Designed to work in extreme environment (over 51° C)
- Highest block loading capacity (7.2 litre engine)
- Strong and durable doors



\*T&C Apply.



### FUEL EFFICIENT, RELIABLE AND ECONOMICAL CPCB II COMPLIANT ENGINE

Economical running cost results up to 10% saving of fuel than competitors.

1



### COMPACT IN SIZE, ACOUSTIC ENCLOSURE

Being the most compact generators in its class, JCB Generators save huge floor area clubbed with features of best LAT conditions and a built-in silencer.

2



### DESIGNED TO WORK IN EXTREME ENVIRONMENTAL CONDITIONS

JCB Generators ensure trouble free performance even in extreme environment. The Generators are designed to work in ambient temperature (over 51° C), better than any other competitor.

3



### HIGHLY REPUTED AND PROVEN COMPONENTS

Mecc Alte alternators are known for their light weight body, small size, better efficiency and best-in-class voltage regulation. Renowned deep-sea controller with user-friendly interface and large screen, ensure easy monitoring and programming performance.

4



### EASE OF MAINTENANCE

Regular checks can be carried out from one side of the engine thus, ensuring safe & easy maintenance. Removable side panel for easy alternator access, end panel for radiator maintenance. Heavy-duty removable service doors provide excellent access to key areas of your generator.

5

# TOP 10 REASONS TO BUY



6

### SUPERIOR FILTRATION SYSTEM

Two stage filtration system including water separator protects your investment even in the poorest conditions.



7

### INTERNAL RESIDENTIAL SILENCER

Unlike others, it not only boasts of great looks but ensures safety too.



8

### BEST-IN-CLASS AESTHETICS

Phosphate dipped nine stage powder paint finish for excellent anti-corrosion and UV resistance for canopy as well as the skid. Unique smooth curved edges enhances look.



9

### SAFEST TO OPERATE, MAINTAIN & STORE

Internal fuel fill point for improved security with easy to access neck. Top vent for releasing hot air. External and internal emergency stop buttons. Complete canopy and skid earthing.



10

### WORLD-CLASS PRODUCT SUPPORT

24x7 service support ensuring you to get the best backup in the business. Single window support for the complete product range through our world-class dealer network.



# JCB POWER PRODUCTS INDIA EXPORTS TO OVER 70+ COUNTRIES!



made in **INDIA**  
for the **WORLD**



## JCB QI CPCB II Compliant Diesel Genset

Genset Model	G63QI	G80QI	G100QI	G125QI	G160QI	G180QI	G200QI
Prime Power Rating (kVA/ kW <sub>e</sub> )	63/50.4	80/64	100/80	125/100	160/128	180/144	200/160
Current Amp at 0.8 pf (lag)	87.5	111.2	139	174	223	250	278
Engine Model	ecoMAX 448TG-60	ecoMAX 448TG-72	ecoMAX 448TAG-92	125kVA Mech CPCB II	160kVA Mech CPCB II	180kVA Elec CPCB II	200 kVA Elec CPCB II
kWm / bhp	60 / 82	72 / 98	92 / 125	114.8/156	146.5 / 199	164/223	182/248
No. of Cylinders	4	4	4	6	6	6	6
Displacement/Cubic Capacity (litres)	4.8	4.8	4.8	7.2	7.2	7.2	7.2
Bore x Stroke	106 x 135	106 x 135	106 x 135	105 x 137	105 x 137	105 x 137	105 x 137
Compression Ratio	17.2:1	17.2:1	17.2:1	16.8:1	16.8:1	16.8:1	16.8:1
Cooling	Radiator	Radiator	Radiator	Radiator	Radiator	Radiator	Radiator
Aspiration	Turbocharged	Turbocharged	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled	Turbocharged & Aftercooled
Governing	Mechanical	Mechanical	Mechanical	Mechanical	Mechanical	Electronic	Electronic
Lube Oil Sump Capacity (litres)	13.5	13.5	13.5	19.8	19.8	20.2	20.2
Alternator Make	Mecc-alte	Mecc-alte	Mecc-alte	Mecc-alte	Mecc-alte	Mecc-alte	Mecc-alte
Enclosure Protection	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Frequency/rpm	50 Hz/1500 rpm	50 Hz/1500 rpm	50 Hz/1500 rpm	50 Hz/1500 rpm	50 Hz/1500 rpm	50 Hz/1500 rpm	50 Hz/1500 rpm
Insulation	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Voltage Regulation	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%	+/- 1%
Dimensions L x W x H (mm)	2500 x 1230 x 1800	2500 x 1230 x 1800	2500 x 1230 x 1800	3750x1300x1750	3750x1300x1750	4000x1300x2050	4000x1300x2050
Fuel Tank Capacity	180	180	180	310	310	310	310
Dry Weight (kg)	1370	1470	1550	2150	2300	2900	2900



Stay Connected 24x7



Conformance standards: ISO 8528, ISO 3046, BS 5514 & IS 4722

#Standard for 180 & 200 kVA only \*T&C Apply.

LiveLink® with JCB 180-200 kVA Gensets

# THE POWER OF INTELLIGENCE



Stay Connected 24x7



For the first time in the industry, comes a Genset range of 180-200 kVA, equipped with advanced telematics technology - LiveLink. Empowering you with critical information like fuel theft alerts, service reminders, and hours of operation etc, this range offers you all you need to illuminate your success story.

\*As a Standard Fitment