

SPECIFICATION

STAGE V



JCB RENTAL SERIES

Emission Level: EU Stage V | Power Output: 18-330kVA



Don't be gentle, it's a JCB rental

The all-new JCB Stage V Rental Series has been designed and manufactured to give exceptional build quality, using advanced technology and industry-leading components. Complemented by world-class support, customers anywhere in the world can choose them and expect complete peace of mind, no matter how tough the job site or application.



IT'S CLEANER

With Particulate Matter (PM) reductions of over 95%, the JCB Rental Series brings the latest in emission control technology, without any loss in flexibility or performance.



IT'S TOUGH

A durable canopy with a powder coat finish protects our generators from the elements, while a heavy-duty baseframe protects against impact damage during handling.



IT'S SMART

The all-new Stage V Rental Series are our smartest generators yet. Intelligent Load Management protects against light load failures, while automatic DEF fill systems maintain performance.

IT'S QUIET

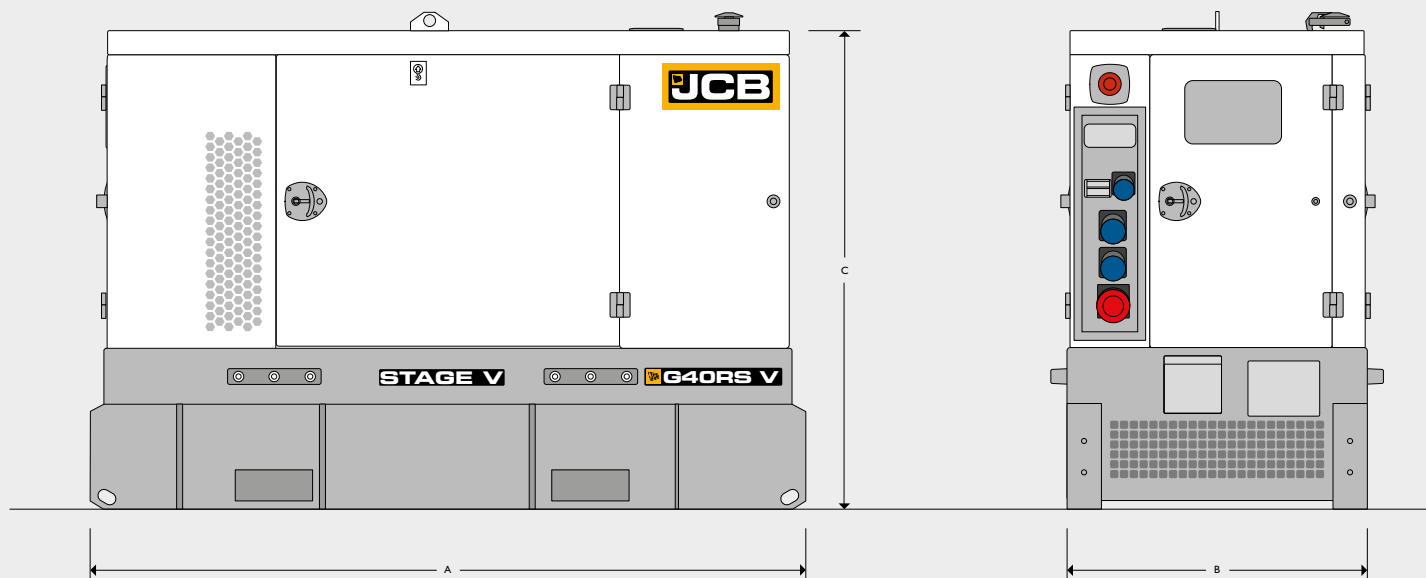
The JCB Rental Series has been engineered to minimise noise, making it the perfect choice for round-the-clock operations.



IT'S EASY

Fixed lifting points, integrated fork pockets and externally accessible socket connections combine to make it easy to transport, easy to deploy and easy to operate.

WEIGHT AND DIMENSIONS



Machine model		G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
A Length	mm	1948	2265	3192	3192	4220	4220	3900	3900
B Width	mm	835	1050	1200	1200	1100	1100	1800	1800
C Height	mm	1423	1574	2050	2050	2200	2200	2200	2200
Shipping volume	m ³	2.3	3.7	7.8	7.8	10.2	10.2	15.4	15.4
Weight*	kg	950	1400	2750	2750	3650	3650	4681	4808

*Standard build with all fluids except fuel

ELECTRICAL

Machine model		G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
Phases		3	3	3	3	3	3	3	3
Voltage	V	400/230	400/230	400/230	400/230	400/230	400/230	400/230	400/230
Frequency	Hz	50	50	50	50	50	50	50	50
Prime									
kVA		18	40	100	120	150	200	250	300
kW		15	32	80	96	120	160	200	240
Standby									
kVA		20	44	110	N/A	165	220	275	330
kW		16	35.2	88	N/A	132	176	220	264

RATINGS

Prime: This rating is for the supply of continuous electrical power, at a variable load, in lieu of commercially purchase power. There is no limitation on the annual hour of operation and 10% over load power can be supplied for 1 hour in 12. No overload permitted on G125RS V.

Standby: Standby Power (ESP) is the maximum output available, for up to 500 hours per year, where the average load (Variable) does not exceed 70% of the standby power rating. No overload is available.

Stage V models are only emission compliant at 50Hz Prime Power.

ENGINE									
Machine model		G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
Net output rating (PRP)	kW	17	42.2	103	103	136	181	233	261
Manufacturer and model		JCB by Kohler KDI M 1903 E5	JCB by Kohler KDI 2504 TCR	JCB 448 TA5-129	JCB 448 TA5-129	FPT – N67TEVP06.00	FPT – N67TEVP05.00	FPT - C87TEVP01.00	FPT - C87TEVP04.00
Engine speed	RPM	1500	1500	1500	1500	1500	1500	1500	1500
Cylinders		3	4	4	4	6	6	6	6
Displacement	L	1.861	2.482	4.8	4.8	6.7	6.7	8.7	8.7
Cooling		Water	Water	Water	Water	Water	Water	Water	Water
Engine oil capacity	L	8.9	11.2	14	14	18	18	26	26
Coolant capacity	L	6.8	4.2	17	17	28	28	43.5	43.5
Governor		Mechanical	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Air filter		Paper Element	Paper Element	Paper Filter	Paper Filter	Dry Type	Dry Type	Dry Type	Dry Type
Engine oil consumption	100% load	0.1% of fuel consumed	0.1% of fuel consumed	0.1% of fuel consumed	0.1% of fuel consumed	0.3% of fuel consumed	0.3% of fuel consumed	0.25% of fuel consumed	0.25% of fuel consumed
Exhaust emission after treatment		N/A	DOC / DPF	DOC/DPF/SCR	DOC/DPF/SCR	DOC/DPF/SCR/CUC	DOC/DPF/SCR/CUC	DOC/SCR/CUC	DOC/SCR/CUC
Emission standard		Stage V	Stage V	Stage V	Stage V	Stage V	Stage V	Stage V	Stage V

FUEL CONSUMPTION									
Machine model		G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
100% load prime	(L/h)	4.4	9.5	23.4	26.8	30.8	41	54.3	67.7
75% load prime	(L/h)	3.2	7.4	17.6	20.6	24.3	30.8	39.5	51.0
50% load prime	(L/h)	2.2	5.4	11.4	14.1	16.9	22.0	29.7	32.8
100% load standby	(L/h)	4.9	10.3	24.9	N/A	34.1	46.8	60.4	73.2

FUEL SYSTEM									
Machine model		G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
Diesel specification		EN590	EN590 & EN15940	EN590 & EN15940	EN590 & EN15940	EN590 & EN15940	EN590 & EN15940	EN590 & EN15940	EN590 & EN15940
Fuel tank capacity (total volume)	L	100	226	260	260	468	468	800	800

DEF SYSTEM									
Machine model		G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
DEF specification		N/A	N/A	ISO 22241	ISO 22241	ISO 22241	ISO 22241	ISO 22241	ISO 22241
DEF fuel consumption @ 75% load	%	N/A	N/A	9.4	9.7	9.6	10.3	9.5	9.5
DEF tank capacity (total volume)	L	N/A	N/A	17	17	43	43	81	81

ALTERNATOR								
Machine model	G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
Model	ECP28-2L/4	ECP32-2S4C	ECP34-2S4C	ECP34-1M4 C	ECP34-1L4 C	ECO38-2S4 C	ECO38 2M4C	ECO38 1L4C
Poles	4	4	4	4	4	4	4	4
Winding connections	Star	Star	Star	Star	Star	Star	Star	Star
Insulation	Class H	Class H	Class H	Class H	Class H	Class H	Class H	Class H
Enclosure	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23	IP 23
Exciter system	Self-regulating brushless	Self-regulating brushless	Self-regulating brushless	Self-regulating brushless	Self-regulating brushless	Self-regulating brushless	Self-regulating brushless	Self-regulating brushless
Voltage regulator	AVR	AVR	AVR	AVR	AVR	AVR	AVR	AVR
Steady state voltage regulation	plus or minus 1%	plus or minus 1%	plus or minus 1%	plus or minus 1%	plus or minus 1%	plus or minus 1%	plus or minus 1%	plus or minus 1%
Coating	Total protection +	Total protection +	Total protection +	Total + Protection	Total + Protection	Total + Protection	Total + Protection	Total + Protection

EXHAUST SYSTEM								
Machine model	G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
Maximum temperature 100% standby degrees	540	520	520	520	550	550	600	600
Maximum temperature - regeneration	N/A	600	600	600	600	600	723	723
Exhaust gas flow 100% standby m ³ /min	2.01	16.7	8.5	8.5	12.0	14.3	15.6	16.6

AIR SYSTEM								
Machine model	G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
Intake air flow 100% standby m ³ /h	82	168	430	430	618	690	950	984
Radiator cooling airflow m ³ /s	0.47	2.0	3.2	3.2	3.8	3.8	6.3	6.3

SOUND PRESSURE								
Machine model	G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
LpA (7m) (dBA)	63	67	66	67	68	68	68	68

STARTING SYSTEM								
Machine model	G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
Battery capacity Ah	110	110	110	110	110	110	110	110
Number of batteries	1	1	1	1	2	2	2	2
Audary voltage V	12	12	12	12	24	24	24	24
Battery type	Sealed lead acid	Sealed lead acid	Sealed lead acid	Sealed lead acid	Sealed lead acid	Sealed lead acid	Sealed Lead Acid	Sealed Lead Acid

REFERENCE STANDARDS

JCB Generators are CE certified and conform to the following Directives (subject to a country requiring such standard):

- EN 12100, EN 13857, EN60204
- 2006/42/CE Machinery safety
- 2006/95/EC Low voltage
- 2004/108/CE Electromagnetic compatibility
- 2000/14/EC Sound Power Level (amended by 2005/88/EC)
- 97/68/ec Emissions (amended by 2002/88/EC & 2004/26/EC)
- Power according to ISO 8528 and ISO 3046
- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046

Information based on standard specification equipment unless stated otherwise.

STANDARD/OPTIONAL FEATURES

Machine model	G18RS V	G40RS V	G100RS V	G125RS V	G150RS V	G200RS V	G250RS V	G300RS V
ELECTRIC								
AVR DSR	•	•	•	•	•	•	•	•
Winding protection - Total +	•	•	•	•	•	•	•	•
MAUX	•	•	•	•	•	•	•	•
4 pole moulded case circuit breaker	•	•	•	•	•	•	•	•
Earth leakage protection	•	•	•	•	•	•	•	•
Preparation for earth spike	•	•	•	•	•	•	•	•
External emergency stop button	•	•	•	•	•	•	•	•
Socket panel	+	+	+	+	+	+	+	+
Bund alarm	+	+	+	+	+	+	+	+
Battery isolator	•	•	•	•	•	•	•	•
Battery charger	+	+	+	+	+	+	+	+
DEF transfer sytem	✘	✘	+	+	+	+	+	+
50Hz / 60Hz switchable	+	+	+	+	+	+	+	+

CANOPY

Lockable maintenance access doors	•	•	•	•	•	•	•	•
Door stays	•	•	•	•	•	•	•	•
Forklift protection bumpers	•	•	•	•	•	•	•	•
Integral fork pockets	•	•	•	•	•	•	•	•
Fixed lifting points	•	•	•	•	•	•	•	•
Bunded fuel tank	•	•	•	•	•	•	•	•
4 point tie down	•	•	•	•	•	•	•	•
High density fire retardant foam	•	•	•	•	•	•	•	•
JCB yellow paint	•	•	•	•	•	•	•	•
White paint (RAL 9001)	+	+	+	+	+	+	+	+
Heavy duty rental base	•	•	•	•	•	•	•	•

MECHANICAL FEATURES

Manual oil drain pump	+	+	+	+	+	+	+	+
Water jacket heater	+	+	+	+	+	+	+	+
Pre-filter with separator	•	•	•	•	•	•	•	•
Racor water/fuel separator	+	+	+	+	+	+	+	+
Fuel level sender	•	•	•	•	•	•	•	•
Internal fuel fill	•	•	•	•	•	•	•	•
3 way fuel valve	•	•	•	•	•	•	•	•

JCB COMMUNICATION AND CONTROL

DSE 7310	•	•	•	•	•	•	•	•
DSE 8610 synchronising controller	+	+	+	+	+	+	+	+
JCB LiveLink	+	+	•	•	•	•	•	•

STANDARD •
 OPTIONAL +
 NOT AVAILABLE ✘



JCB

STAGE V

G100RS V

3076444



ONE COMPANY, OVER 300 MACHINES.

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JCB RENTAL SERIES

Emission Level: EU Stage V Power Output: 18-330kVA

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