



2750mm

**DIESEL GENERATOR** 

**FUEL OPTIMISED** 

### **ELECTRICAL**

	Prime Standby								
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
50	3	400/230V	105.00	84.00	116.00	92.80	160.00	160.00	1500
60	3	380/220V	106.60	85.30	117.80	94.20	160.00	160.00	1800
60	3	220/I27V	106.60	85.30	117.80	94.20	400.00	400.00	1800
60	3	480/277V	106.60	85.30	117.80	94.20	250.00	250.00	1800

POWER FACTOR				
3 Phase	0.8			
I Phase	1			

MAXIMUM LOAD IMPACT*				
kVA	86.00			
kW	69.00			

<sup>\*</sup>With 20% voltage and 10% frequency deviation @ 50Hz, 400V

#### **ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528**

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

Standby: This rating is for the supply of continuous electrical power, at variable load, in the event of a utility power failure. No overload is permitted.

Stage Illa models are only emissions compliant at 50Hz Prime Power in accordance with 97-68EC.

# GII5S | Open Set



CANOPY/SKID	
Lockable Maintenance Access Doors	×
Control Panel Viewing Window	×
Fork Pockets	$\Delta$
Single Lift Point	X
Bunding	Δ
Open Frame	•
High Density Fire Retardant Foam	X
Yellow Paint	X
White Paint	X
Standard: • Not Available: x Optional: △	7

Poles 4 Winding Connections Star Insulation Class H
Insulation Class H
Enclosure IP23
Exciter System Self-regulating brushless
Voltage Regulator AVR
Steady State Voltage Regulation +/- 1.0%
Bearing Single bearing sealed
Coupling Flexible disc
Cooling Direct drive centrifugal blower fan
Coating Winding Protection Grey

STARTING SYSTEM						
Starter Motor	kW	4.20				
Battery Capacity	Ah	120				
Number of Batteries		1				
Auxiliary Voltage	V	12				

ENGINE						
I 500 RPM						
Output Rating (PRP)	kW	101.00				
Output Rating (Standby)	kW	112.00				
I 800 RPM						
Output Rating (PRP)	kW	104.50				
Output Rating (Standby)	kW	114.95				
Manufacturer and Model		JCB G-TCA S2				
Fuel		Diesel				
Injection		Direct				
Aspiration		Turbo Charged				
Cylinders		4				
Bore and Stroke	mm	103x 132				
Displacement	L	4.399				
Cooling		Water				
Engine Oil Specification		API CH4				
Compression Ratio		17.5 : 1				
Engine Oil Capacity	L	14.00				
Coolant Capacity	L	18.00				
Governor		Mechanical				
Air Filter		Single paper element				
Engine Oil Consumption	100% Load	0.1% of fuel consumed				
FUEL SYSTEM						

FUEL SYSTEM				
Diesel Specification		EN590		
Standard Fuel Tank Capacity	L	285		

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FUEL CONSUMPTION						
100% Load Prime		l	_/h			24.10
75% Load Prime		I	_/h	50Hz		18.60
50% Load Prime		I	_/h	JUHZ		13.00
100% Load Standby		I	_/h		26.30	
100% Load Prime	I	_/h			30.10	
75% Load Prime		I	_/h	60Hz	23.30	
50% Load Prime		I	_/h	6UHZ		16.30
100% Load Standby		l	_/h			32.90
EXHAUST SYSTEM						
Maximum Temperature 10	0% Standby	(	<sup>D</sup> C			529.00
Exhaust Gas Flow 100% St	andby	m <sup>2</sup>	<sup>3/</sup> min	50Hz		0.50
Maximum Allowed Back Pressure		m	nbar			100.00
Maximum Temperature 100% Standby		(	C			472.00
Exhaust Gas Flow 100% Standby		m	<sup>3/</sup> min	60Hz		589.00
Maximum Allowed Back Pressure		n	nbar			100.00
Exhaust Flange Size		r	nm		72.5	
AIR SYSTEM						
Intake Air Flow 100% Stand	dby	n	n <sup>3</sup> /h			506.00
Total Cooling Air Flow 100	,	n	n <sup>3</sup> /s	50Hz		234.00
Alternator Fan Airflow	ŕ	n	n <sup>3</sup> /s			31.00
Intake Air Flow 100% Stand	Intake Air Flow 100% Standby		n <sup>3</sup> /h			612.00
Total Cooling Air Flow 100% Standby		n	n <sup>3</sup> /s	60Hz		234.00
Alternator Fan Airflow		n	n <sup>3</sup> /s			31.00
SOUND PRESSURE (C.	ANOPY ONLY	)				
LpA (7m)	50Hz		dB(A)			0
LpA (7m)				B(A)		0

MECHANICAL FEATURES			
Cooling Pack			•
Air Filter			•
Mechanical Governor			•
Low Oil Pressure Switch			•
Coolant Temperature Sender			•
Oil Temperature Sender			•
Radiator Guards			•
Hot Component Guards		Δ	
Manual Oil Drain Pump (Canopy)		Δ	
Water Jacket Heater	Δ		
Pre-Filter with Separator	•		
Fuel Level Sender			•
Internal Fuel Fill (Belly Tank)			•
3 Way Fuel Valve	Δ		
Residential Silencer	•		
Industrial Silencer			X
Standard: ●	Not Available: x	Optional: $\Delta$	

### GII5S | Open Set



ELECTRICAL FEATURES	
AVR DSR	•
AVR DER	×
Winding Protection Standard	X
Winding Protection Standard +	×
Winding Protection Grey	•
Winding Protection Total	Δ
Winding Protection Total +	Δ
MAUX	•
PMG	Δ
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker	•
4 Pole Moulded Case Circuit Breaker	Δ
Earth Leakage Protection (Shunt Trip)	Δ
Preparation for Earth Spike	•
Optional Voltages	Δ
Remote Screen	Δ
Emergency Stop Button	•
External Emergency Stop Button	•
Standard: • Not Available: x Optional: Δ	1

BATTERY FEATURES			
Battery Isolator			Δ
Battery Type	Lead Acid		
Battery Size (Ah)			120
Number of Batteries			I
Battery Charger			•
Stand	ard: ●	Not Available: x	Optional: $\Delta$

4520		•
Standard: ●	Not Available: x	Optional: $\Delta$
WEIGHT AND DIMENSIONS		
Length	mm	2750
Width	mm	1100
Height	mm	1760
Shipping Volume (sea ready)	m <sup>3</sup>	5.32
Weight*	Kg	1690.00
*Standard build with all fluids except fuel		
OPTIONAL CE PACK		
EMC Certification		•
Hot Guards		•
Belt Guards		•
Earth Leakage Relay		•

#### **REFERENCE STANDARDS**

EU Declaration for Engine Emissions

Complete Machine Declaration of Conformity

Standard: •

Sound Power Decal

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

Not Available: x

- EN 12100, EN13857, EN60204
- 2006/42/CE Machinery safety
- 2006/95/EC Low voltage
- 2004/I 08/CE Electromagnetic compatibility

**JCB COMMUNICATION AND CONTROL** 

4510

- 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 otherwise stated.

Optional:  $\Delta$