G780X | G780QX

DIESEL GENERATOR | FUEL OPTIMISED

ELECTRICAL

			Prime		Standby		
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	Rated Speed (RPM)
50	3	400/230V	709	567	779	623	1500

POWER FACTOR

3 Phase	0.8
1 Phase	1

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

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FUEL CONSUMPTION

100% Load Prime	L/h	50Hz	137.92
75% Load Prime	L/h		102.36
50% Load Prime	L/h		68.24
100% Load Standby	L/h		154.98
100% Load Prime	L/h	60Hz	-
75% Load Prime	L/h		-
50% Load Prime	L/h		-
100% Load Standby	L/h		-

EXHAUST SYSTEM

Maximum Temperature 100% Standby	°C	50Hz	578
Exhaust Gas Flow 100% Standby	kg/s		TBA
Maximum Allowed Back Pressure	mbar		TBA
Maximum Temperature 100% Standby	°C	60Hz	-
Exhaust Gas Flow 100% Standby	kg/s		-
Maximum Allowed Back Pressure	mbar		-

AIR SYSTEM

Intake Air Flow 100% Standby	m^3/h	50Hz	2234
Total Cooling Air Flow 100% Standby	m^3/s		19.4
Alternator Fan Airflow	m^3/s		1.614
Intake Air Flow 100% Standby	m^3/h	60Hz	-
Total Cooling Air Flow 100% Standby	m^3/s		-
Alternator Fan Airflow	m^3/s		-

ENGINE

1500 RPM		
Output Rating (PRP)	kW	596
Output Rating (Standby)	kW	655
1800 RPM		
Output Rating (PRP)	kW	-
Output Rating (Standby)	kW	-
Manufacturer and Model		Scania DC16-78A (02-43)
Fuel		Diesel
Injection		Direct
Aspiration		Turbo Charged and Aftercooled
Cylinders		V8
Bore and Stroke	mm	131 x 154
Displacement	L	16.40
Cooling		Water
Engine Oil Specification		ACEA E3, E4, E5 or E7
Compression Ratio		16.7:1
Engine Oil Capacity	L	48.00
Coolant Capacity	L	68.00
Governor		Electronic
Air Filter		Dry
Engine Oil Consumption	100% Load	0.2 g/kWh

FUEL SYSTEM

Diesel Specification		EN590

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ALTERNATOR

Poles	4
Winding Connections	Star-Series
Insulation	Class H
Enclosure	IP23
Exciter System	Self-excited brushless
Voltage Regulator	AVR (electronic)
Steady State Voltage Regulation	+/- 1.0%
Bearing	Twin Bearing
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Winding Protection Grey

STARTING SYSTEM

Starter Motor	kW	7
Auxiliary Voltage	V	24
Number of Batteries		2

BATTERY FEATURES

Battery Isolator	●
Battery Size (Ah)	75
Number of Batteries	2
Battery Charger	●

Standard: ● Not Available: x Optional: Δ

MECHANICAL FEATURES

Cooling Pack	●
Air Filter	●
Mechanical Governor	x
Electronic Governor	●
High Coolant Temperature Sender	x
Low Oil Pressure Sender	x
Advanced Coolant Temperature Sender	●
Advanced Oil Pressure Sender	●
Oil Temperature Sender	●
Water Level Sender	●
Radiator Guards	●
Hot Component Guards	●
Water Jacket Heater	●
Manual Fuel Fill	Δ
Electric Fuel Fill	Δ
Racor Fuel Filter (No Alarm)	Δ
Racor Fuel Filter (With Alarm)	Δ
Pre-Filter with Separator	x
External Spark Arrestor	Δ
Fuel Level Sender	●
Industrial Silencer	●

Standard: ● Not Available: x Optional: Δ

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ELECTRICAL FEATURES

AVR DSR	●
AVR DER	x
Winding Protection Standard	x
Winding Protection Standard +	x
Winding Protection Grey	●
Winding Protection Total	Δ
Winding Protection Total +	Δ
MAUX	●
PMG	Δ
Anti-Condensation Heater	Δ
Miniature Circuit Breaker (Integrated busbar)	x
Moulded Case Circuit Breaker (with integrated busbar)	●
Earth Leakage Protection (Shunt Trip)	●
Synchronisation	Δ
Preparation for Earth Spike	●
Remote Screen	Δ
Panel Door Micro Switch	Δ
Copper Busbar/Tails	Δ
Emergency Stop Button	●

Standard: ● Not Available: x Optional: Δ

JCB COMMUNICATION AND CONTROL

CP1	Δ
CP2	Δ
ATP	Δ
DSE7320	●
JCB LiveLink	●

Standard: ● Not Available: x Optional: Δ

SYNCHRONISATION PANEL

DSE8610	Δ
DSE8620	Δ

Standard: ● Not Available: x Optional: Δ

REFERENCE STANDARDS

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

- EN 12100, EN13857, 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 otherwise stated.

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WEIGHT AND DIMENSIONS – OPEN SET

Length	mm	3600
Width	mm	1460
Height	mm	2096
Shipping Volume (sea ready)	m^3	11.00
Weight*	Kg	3917

**Standard build with all fluids except fuel*

WEIGHT AND DIMENSIONS – CANOPY SET

Length	mm	4500
Width	mm	1800
Height	mm	2340
Shipping Volume (sea ready)	m^3	18.95
Weight*	Kg	5627

**Standard build with all fluids except fuel*

SOUND PRESSURE (CANOPY ONLY)

LpA (7m)	50Hz	dB(A)	83
LpA (7m)	60Hz	dB(A)	-

FUEL TANK

	Material	Capacity (L)
Open Set	Steel	740
Canopy Set	Steel	740

CANOPY FEATURES

Lockable Maintenance Access Doors	●
Control Panel Viewing Window	●
Fork Pockets	●
Single Lift Point	●
Rental Sledging Base	Δ
Bunding	●
Bund Level Indicator	Δ
50mm Rock Wool Sound Insulation	●
Yellow Paint	●
Red Paint	Δ
White Paint	Δ
Manual Oil Drain Pump (Canopy)	●
Residential Silencer	●
3 Way Fuel Valve and Coupling Nest	Δ
Socket Box (inclusive of heavy duty busbar & micro switch)	Δ
External Emergency Stop Button	●

Standard: ● Not Available: x Optional: Δ