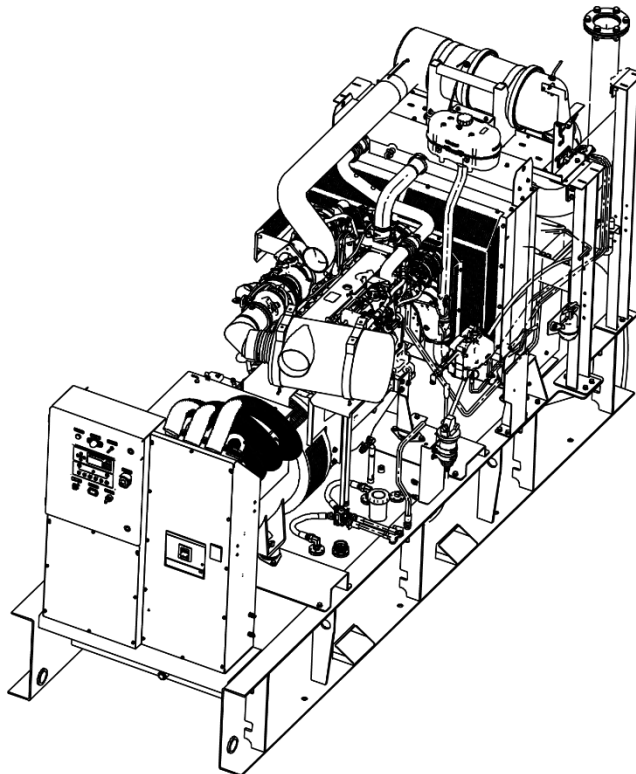


A220J

DIESEL GENSET SPECIFICATION

240kVA (PRP) / 264kVA (ESP)

ID: 1000032422



Diesel Genset Specification

A220J

General technical data

Model	A220J	Rated voltage V	Current A
Structure	R	208	666.2
Prime power (PRP): kVA / kW	240 / 192	220	629.9
Standby power (ESP): kVA / kW	264 / 211	230	602.5
Frequency: Hz	60	240	577.4
Rotate speed: RPM	1800		
Phase: P	3		
Power factor: $\cos\phi$	0.8	Load	Fuel consumption L/h
Protection class	IP54	25%	11.5
Noise level: dB@7m	N/A	50%	22.8
Tank capacity: L	791	75%	35.5
Dimensions: mm	3705×1448×2155	100%	45.5
Dry weight: kg	2728	110%	50.1

Main Features

Advantage	Design Standards	Environmental Operating Conditions
- Low fuel consumption - Optimized system - High reliability - High availability	- Conformite Europeenne (CE) - ISO8528-5:2005	- Installation place: outdoor / indoor (well ventilated). - Ambient temperature: -25°C to 45°C (the coolant heater is needed when the temperature is below 5°C) - Humidity: Less than 80% - Altitude: Below one thousand (1000) meters.
Factory Inspection	Service Support	Performance Guarantee
- Protection devices working test - Starting ability in normal temperature 50% rated power load moment capability - Load test :0, 25%, 50%, 75%, 100%, 110%	Global product service support	- Product design, manufacturing and performance have been verified by standards - Generator set has passed transient response test according to ISO8528-5 - Both engine and alternator have passed prototype factory testing.

Diesel Genset Specification

A220J

Power System

Engine

Manufacturer / brand	Johndeere	Intake system	Turbocharged
Model	6068CG550	Intake resistance: kPa	≤3.75
Cylinders	6L	Exhaust back pressure: kPa	≤23.0
Bore: mm	106	Oil capacity: L	31.0
Stroke: mm	127	Coolant capacity: L	11.9
Displacement: L	6.8	Battery voltage: V	12/24
Compression ratio	16.7	Dimensions: mm	1140×780×1205
Rotate speed: RPM	1500	Dry weight: kg	785
Prime power: kWm	219		
Standby power: kWm	241		
Rotate speed governor	ECU		
Type of fuel Injection	Direct		

Alternator

Manufacturer / brand	Leroysoner	Insulation class	H
Model	LSA46.3S4	Temperature rising class	H
Exciter	Standard self-excitation, SHUNT	Protection class	IP23
Windings	100% copper	Voltage regulation	±0.5%
Winding pitch	2/3	Telephone harmonic factor THF	<2%
Number of poles	4	Telephone interference factor TIF	<50
Terminals	12		

Control System

Brand	POWERLINK
Model	PLC-7420

General Functions	Monitoring and protection	
– Automatic start / stop control	Oil pressure	Over load
– Manual/remote start control	Water temperature	Over current
– Real time monitoring and display of multiple parameters	Rotate speed	Over voltage
– CAN and Modbus communication	Start	Under voltage
– Provide complete control solutions	Running time	Over frequency
	Battery voltage	Under frequency
		

Product Configuration

Standard configuration

Engine	Generator	Control switchgear	Canopy (sound-proof)	Base Frame
Electrical start motor	Alternator	PLC control system	SECC Electrogalvanized sheet	Steel base frame
Battery system	H class insulation	Main circuit breaker	Corrosion-resistant coating	Engine bracket
Speed control system	H class temp. rising	Breaker cabinet	Access door	Alternator bracket
Lockable isolator switch	IP23 protection	ATS connector	Stainless steel hinge	Radiator bracket
Battery charger	AVR voltage regulator	Mains floating charger	Sound absorbing cotton	Vibration isolators
Fuel system	Lubrication system	Cooling system	Intake / exhaust system	Service documents
Base frame fuel tank	Oil pressure sensor	Radiator	Air filter	Installation and operation manual
Fuel level sensor	Oil temperature sensor	Water level sensor	Exhaust muffler	Test report
Flexible connection pipe	Oil filter	Water pipe	Exhaust bellow	Wiring diagram
Fuel filter	Manual oil drain pump		Exhaust pipe and flange	Warranty manual
	Oil drain ball valve		High temperature protective sleeve	Engine manual
				Standard package

Optional configuration

Engine	Alternator	Control switchgear	Fuel system	Lubrication system
Jacket water preheater	Anti-condensation heater	Paralleling control system	Fuel three-way valve	Electric oil drain pump
Oil preheater	Treatments against humidity and corrosion	Grid-connection system	Daily fuel tank	

Power Class Definition

- Prime Power (PRP): the unit runs continuously with variable load, the number of operating hours is not limited, and 1h overload 10% operation is allowed per 12h, and the average load factor is less than 70% per 24h.
- Standby Power (ESP): operating time does not exceed 500h per year, continuous operating time does not exceed 300h, the average load factor is less than 80% per 24h. Overload operation is not allowed.

Product Statement

- The data of specifications is based on the following standard environmental test conditions.
 - Ambient temperature 25°C
 - Altitude 100m
 - Relative humidity 30%
- Dimensions, weight and other parameters are for reference only, which shall be subject to the final design drawing.



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Data is subject to change without prior notice as new products are always developed.

Please contact PowerLink or local agent with any doubts or for more information.