

# G220RS | Rental Diesel Generator



DIESEL GENERATOR

T4F/Stage V

## WEIGHT AND DIMENSIONS - STATIC

Length	in	156
Width	in	61
Height	in	89
Weight*	lbs	11000

\*Standard build with all fluids including fuel

## WEIGHT AND DIMENSIONS - TRAILER MOUNTED

Length	in	222
Width	in	88
Height	in	114
Weight*	lbs	12720

\*Standard build with all fluids including fuel

## ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	Prime Rating		Amps	Rated Speed (RPM)	Emissions
			kVA	kW			
60	3	480/277V	219	175	263	1800	T4F/Stage V
60	3	208/120V	219	175	608	1800	T4F/Stage V
60	1	240V	85	85	354	1800	T4F/Stage V

## POWER FACTOR

3 Phase	0.8
1 Phase	1

## ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS

**Prime:** This rating is for the supply of continuous electrical power, at variable load (70% average), 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.

Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046

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## AIR SYSTEM

Limiting Ambient Temperature	°F	60Hz	122
Radiator Duct Allowance	In H <sub>2</sub> O		0.80
Radiator Cooling Airflow	cfm		1695 l

## EXHAUST SYSTEM

Maximum Temperature 100%	°F	60Hz	927
Exhaust Gas Flow 100%	lbs/hr		1225
Maximum Allowed Back Pressure	In H <sub>2</sub> O		88

## FUEL SYSTEM

Diesel Specification	Grade	ASTM D975 (2D)	
Standard Fuel Tank Capacity	(US) g	245	
Fuel Tank Material	Type	Steel	
Fuel Tank Construction		Double Skinned	

## FUEL CONSUMPTION

100% Load Prime	(US) gph	60Hz	13.5
75% Load Prime	(US) gph		10.2
50% Load Prime	(US) gph		7.4

## DEF SYSTEM

DEF Specification		ISO 22241-1	
Standard Capacity Tank	(US) g	18	

## DEF CONSUMPTION

100% Load Prime	(US) gph	60Hz	0.95
75% Load Prime	(US) gph		0.71
50% Load Prime	(US) gph		0.52

## ENGINE

1800 RPM		
Net Output Rating (PRP)	kW	179
Net Output Rating (Standby)	kW	224
Manufacturer and Model		Volvo TAD883VE
Fuel		Diesel
Injection		Common Rail
Aspiration		Turbo Charged
Cylinders		6
Bore and Stroke	in	4.33 x 5.31
Displacement	in <sup>3</sup>	470.0
Cooling		Water
Engine Oil Specification		API CH4-SAE 10W40
Compression Ratio		17.5 : 1
Engine Oil Capacity	(US) g	7.13
Coolant Capacity	(US) g	13.5
Governor		Electronic
Engine Oil Consumption	(US) gph	0.05
Exhaust After treatment	SCR	•
	DOC	•
	DPF	•

## AMBIENT CLEARANCE

Upper Temperature Limit	°F	122
Lower Temperature Limit	°F	23

## SOUND PRESSURE

LpA (23ft & 100% load)	dB(A)	60Hz	67
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## ELECTRICAL

AVR DSR	●
AVR DERI with 3 phase sensing	Δ
Total + Winding Protection for Harsh & Saline Environments	●
MAUX – High Motor Start Auxiliary Winding	●
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker	●
Earth Leakage Protection (Switchable)	Δ
Preparation for Earth Spike	●
Emergency Stop Button (Control Panel)	●
120V Charger & Heater Supply Sockets	Δ
GFCI 120V Small Power Sockets	Δ
50A Shore Power Sockets	Δ
Camlock Connections	Δ
Terminal Safety Microswitches	●
Standard: ● Not Available: x Optional: Δ	

## BATTERY FEATURES

Battery Isolator	●
Battery Type	Maintenance Free Lead Acid
Battery Charger – 10A	Δ

## STARTING SYSTEM

Battery Capacity	Ah	800
Number of Batteries		2
Auxiliary Voltage	V	24

## ALTERNATOR ECO38-2S/4A

Poles	4
Insulation	Class H
Enclosure	IP23
Exciter System	MAUX Excitation
Voltage Regulator	AVR - DSR
Steady State Voltage Regulation	+/- 1%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Total Protection +
Multi Position Voltage Selection Switch	Δ
Standard: ● Not Available: x Optional: Δ	

## CONTROL AND COMMUNICATION

DSE 7310 (Non Sync) Controller	●
DSE 8610 (Sync) Controller (>220 with DSE8003 colour screen)	Δ
Deif AGC150 (Non Sync) Controller	Δ
Deif AGC4 (Sync) Controller with TDU7 Touchscreen Display	Δ
Analogue Load Share	Δ
External USB Programmable Port	Δ
JCB LiveLink for Power	●
High Engine Temperature Shutdown	●
Low Oil Pressure Shutdown	●
Low Coolant Level Alarm	●
Leak Detection Alarm	Δ
Analogue Hour Counter	Δ
Bus Live Warning Lamp	●
Audible Alarm Sounder	●
Panel Mounted Voltage Trimpot	Δ
Standard: ● Not Available: x Optional: Δ	

## MECHANICAL

Tropical Cooling Pack	●
Heavy Duty Air Filter	●
Radiator Fan Guards	●
Hot Component Guards	●
Manual Oil Drain Pump	Δ
Water Jacket Heater	Δ
Fuel Pre-Filter with Separator	●
Racor water/fuel separator	Δ
Racor change over water/fuel separator	x
Fuel Level Sender	●
3 Way Fuel Valve	Δ
Exhaust Silencer including Aftertreatment	●
Fuel Tank Access Plate	●
External Fuel and DEF Fill Point	●
Remote DEF Tank Connection	Δ
Standard: ●      Not Available: x      Optional: Δ	

## TRAILER - Optional

DOT Approval	●
LED Lights	●
Electric Brakes	●
Access Platform Fenders	●
3" Pintle Eye Hitch	●
7 Pin Towing Electrics	●
Tie Down Points	●
Heavy Duty Jack	●
Fire Extinguisher	Δ
Black Paint Finish (Trailer & Rims)	●
Standard: ●      Not Available: x      Optional: Δ	

## CANOPY

Lockable Maintenance Access Doors	●
Control Panel Viewing Window	●
Single Lift Point	●
Fork Lift Pockets	x
Fluid Containment with Drain Point	●
4 Point Tie Down	●
High Density Fire Retardant Foam	●
Yellow Paint	●
Other Paint Finishes	Δ
Heavy Duty Rental Base	●
Zintec Steel Canopy	●
Integrated High Level Access Ladder	●
Self-Latching Cable Access Points	●
Door Retention Catches	●
External Emergency Stop Button	●
Waterproof Document Holder	Δ
Standard: ●      Not Available: x      Optional: Δ	