

G220RS | Rental Diesel Generator



DIESEL GENERATOR

T4F

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	216
Width	in	88
Height	in	114
Weight*	lbs	12720

**Standard build with all fluids including fuel*

ELECTRICAL

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

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

AIR SYSTEM

Limiting Ambient Temperature	°F	60Hz	122
Radiator Duct Allowance	In H ₂ 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 ₂ 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	14.5
75% Load Prime	(US) gph		10.9
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	1.02
75% Load Prime	(US) gph		0.76
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 TAD873VE	
Fuel		Diesel	
Injection		Common Rail	
Aspiration		Turbo Charged	
Cylinders		6	
Bore and Stroke	in	4.33 x 5.31	
Displacement	in ³	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	x	
	DPF	x	

AMBIENT CLEARANCE

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

SOUND PRESSURE

LpA (23ft) - <i>Provisional</i>	dB(A)	60Hz	70
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ELECTRICAL

AVR DSR	●
AVR DER1 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	Sealed 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	