



**CAT Class: Diesel Generator 560kW/700kVA**

**Technical Data<sup>1</sup>**

Generator	Units	QAS 700 VD	
Rated Prime Power 3Ø @ 480V 60hz	kW / kVA	560 / 700	
3Ø Power Factor		0.8	
3Ø Voltage In 480V Switch Position (Series Star w/ Neutral)	V	480Y/277	
Amp Capacity @ 480V / 60Hz	A	842	
3Ø Voltage In 240-208V Switch Position (Parallel Star w/ Neutral)	V	240YY/139 – 208YY/120	
Rated Prime Power 3Ø @ 240V 60hz	kW / kVA	506 / 632	
Amp Capacity @ 240V / 60Hz	A	1520	
Rated Prime Power 3Ø @ 208V 60hz	kW / kVA	438 / 548	
Amp Capacity @ 208V / 60Hz	A	1521	
3Ø Voltage In 400V 50Hz Switch Position (Series Star w/ Neutral)	V	400Y/231	
Rated Prime Power 3Ø @ 400V 50hz	kW / kVA	446 / 558	
Amp Capacity @ 400V / 50Hz	A	805	
1Ø Power Factor		1	
1Ø Voltage In 120-240V Switch Position (Zig-Zag)	V	120-240	
Rated Prime Power 1Ø @ 120-240V 60hz	kW / kVA	260 / 260	
Amp Capacity @ 240V / 60Hz	A	1083	
Amp Capacity @ 120V / 60Hz	A	2 x 1083	
Performance class (acc. ISO 8528-5:1993)		G2	
Single Step Load Acceptance (0-PRP) @50/60Hz	kW (%)	247.9 (55.6%) @50Hz	374.7 (66.9%) @60Hz
Alternator (4 Pole, 12 Wire)	Leroy Somer	LSA 47.2 L9	
Excitation		AREP	
Automatic Voltage Regulator (± 0.25%)		DVC550	
Insulation		Class H	
Frequency	Hz	50 / 60	
Main Breaker – Rated Current In	A	1600	
Power Distribution – Terminal Board		5 Wire (L1, L2, L3, N, Ground)	
Terminal Board Connections		Bare Wire Terminals	
Maximum Terminal Cable Size		350MCM	
Convenience Receptacles <sup>2</sup>		2 x NEMA 5-20R GFCI, 3 x 125/250V 50A CS6369	

Engine	Units	QAS 700 VD	
Model		Volvo TWD1683GE	
US EPA Family		MVPXL16.1CDD	
US EPA Tier		T4F	
Displacement	l	16.12	
Cylinders	#	6	
Continuous Engine Power Output (@ 1800 RPM)	HP (kW)	811 (596)	
Gross Engine Power Output (@ 1800 RPM)	HP (kW)	891 (655)	
Rated Speed	RPM	1800	
Engine Control		ECU	
Aspiration		Two-Stage Turbo w/ Intercooler	
Engine oil capacity <sup>3</sup>	Gal (l)	11.1 (42)	
Engine coolant capacity	Gal (l)	29.3 (111)	
Maximum Ambient Temperature (@ Sea Level) <sup>4</sup>	°F (°C)	122°F (50°C)	
Minimum Starting Temperature (Without block heater on)	°F (°C)	14°F (-10°C)	
Minimum Starting Temperature (With block heater on)	°F (°C)	-13°F (-25°C)	
Electrical System (Negative Ground)	V	24	
Engine Alternator Output	A	80	
Battery Capacity (Cold Cranking Amps)	A	1400 X 2	
Sound Pressure Level @ 23'(7 m) @ 75% Load <sup>5</sup>	dB(A)	76	

Fuel and DEF Systems	Units	QAS 700 VD	
Fuel Consumption @ 25% load	Gal/h (l/h)	12.19 (46.14)	
Fuel Consumption @ 50% load	Gal/h (l/h)	19.99 (75.67)	
Fuel Consumption @ 75% load	Gal/h (l/h)	28.12 (106.45)	
Fuel Consumption @ 100% load	Gal/h (l/h)	36.92 (139.76)	
Fuel Type		Ultra-Low Sulfur Diesel ONLY <sup>6</sup>	
Fuel Tank Capacity	Gal (l)	707 (2676)	
Fuel Autonomy @ 75% load and 90% of fuel capacity	Hr	22.6	
DEF Tank Capacity	Gal (l)	43.4 (164.2)	
DEF Autonomy @ 75% load and 95% of DEF capacity	Hr	23.5	

<sup>1</sup> All ratings are at a reference condition of 0' altitude and 25°C (77°F)

<sup>2</sup> Please see receptacle voltage configuration in Power Distribution section on complete Product Reference Sheet

<sup>3</sup> Engine oil to meet CJ-4 (low ash oil)

<sup>4</sup> Please see "Derate Table" for altitude and temperature calculations on complete Product Reference Sheet

<sup>5</sup> Measured in accordance with ISO 2151 under free field conditions @ 7m distance

<sup>6</sup> Engine and emissions require the use of Ultra Low Sulfur Diesel in accordance to ASTM-D975 Grade No.1-D S15 & No.2-D S15