



CAT Class: Diesel Generator 140kW/175kVA & 190kW/235kVA

Technical Data¹

Generator	Units	QAS 175 FD		QAS 235 FD	
Frequency	Hz	50	60	50	60
Rated Prime Power @ 400V/50Hz & 480V/60Hz 3Ø	kW / kVA	126/158	140/175	164/205	187/234
Rated Standby Power @ 400V/50Hz & 480V/60Hz 3Ø	kW / kVA	133/166	154/193	181/226	206/258
3Ø Power Factor		0.8	0.8	0.8	0.8
3Ø Voltage @ 480V 60Hz (Series Star w/Neutral)	V	-	480Y/277	-	480Y/277
Amp Capacity @ 480V 60Hz	A	-	210	-	281
3Ø Voltage @ 240-208V 60Hz (Parallel Star w/	V	-	240Y/120 – 208Y/120	-	240Y/120 – 208Y/120
Rated Prime Power @ 240V 3Ø	kW / kVA	-	140/175	-	187/234
Amp Capacity @ 240V 3Ø	A	-	421	-	562
Rated Prime Power @ 208V 3Ø	kW / kVA	-	130/163	-	172/215
Amp Capacity @ 208V 3Ø	A	-	451	-	597
Rated Prime Power 1Ø	kW / kVA	-	76/76	-	100/100
1Ø Power Factor		-	1.0	-	1.0
1Ø Voltage @ 120-240V 60Hz (Zig-Zag)	V	-	240/120	-	240/120
Amp Capacity @ 240V	A	-	317	-	417
Amp Capacity @ 120V	A	-	2 x 317	-	2 x 417
3Ø Voltage @ 400V 50Hz (Series Star w/Neutral)	V	400Y/231	-	400Y/231	-
Amp Capacity @ 400V 50Hz	A	227	-	296	-
Performance Class (acc. ISO 8528-5:1993)		G2	G2	G2	G2
Single Step Load G2 Acceptance (0-PRP) @60Hz 480V	kW (%)	74 kW (53%)		75 kW (40%)	
Single Step Load Capability @60Hz 480V	kW (%)	140 kW (100%)		187 kW (100%)	
Sound Pressure Level @ 23'(7 m) @ 75% Load ²	dB(A)	69		69	
Alternator (4 Pole, 12 Wire)	Leroy Somer	TAL 044J		TAL 044M	
Excitation system		AREP+		AREP+	
AVR - Automatic Voltage Regulator model		D350		D350	
AVR's AC voltage regulation accuracy	%	±0.25%		±0.25%	
Insulation		Class H		Class H	
Main Breaker – Rated Current In	A	600		600	
Power Distribution – Terminal Board		5 Wire (L1, L2, L3, N, Ground)		5 Wire (L1, L2, L3, N, Ground)	
Terminal Board Connections		Bare Wire Terminals		Bare Wire Terminals	
Maximum Terminal Cable Size		350MCM		350MCM	
Convenience Receptacles ³		N/A	(2) NEMA 5-20R (3) 125/250V 50A CS6369	N/A	(2) NEMA 5-20R (3) 125/250V 50A CS6369

Engine	Units	QAS 175 FD		QAS 235 FD	
Model	FPT	N67TEVP02		N67TEVP01	
US EPA Tier		Tier 4 Final		Tier 4 Final	
Displacement	L	6.7		6.7	
Cylinders	#	6		6	
Rated Net Engine Power Output	HP (kW)	189 (141)		243 (181)	
Rated Speed	RPM	1800		1800	
Engine Control		ECU		ECU	
Aspiration		Turbocharged w/ Intercooler		Turbocharged w/ Intercooler	
Engine oil capacity ⁴	US Gal (L)	9.51 (36)		9.51 (36)	
Engine coolant capacity	US Gal (L)	15.32 (58)		15.32 (58)	
Maximum Ambient Temperature (@ Sea Level) ⁵	°F (°C)	129.2 (54)		129.2 (54)	
Min. Starting Temp (w/o heater)	°F (°C)	5 (-15)		5 (-15)	
Minimum Starting Temperature (with heater) ⁶	°F (°C)	-13 (-25)		-13 (-25)	
Electrical System (Negative Ground)	V	24		24	
Engine Alternator Output	A	90		90	
Battery Capacity (Cold Cranking Amps)	A	850		850	

Fuel System	Units	QAS 175 FD		QAS 235 FD	
Fuel Consumption @ 25% load	50Hz / 60Hz US Gal/hr (L/hr)	1.2 (4.5)	1.4 (5.2)	1.2 (4.5)	1.4 (5.2)
Fuel Consumption @ 50% load	50Hz / 60Hz US Gal/hr (L/hr)	4.0 (15.0)	4.8 (18.0)	5.3 (19.9)	6.3 (24.0)
Fuel Consumption @ 75% load	50Hz / 60Hz US Gal/hr (L/hr)	6.0 (22.7)	7.0 (26.4)	7.7 (29.1)	9.1 (34.4)
Fuel Consumption @ 100% load	50Hz / 60Hz US Gal/hr (L/hr)	7.8 (29.7)	9.1 (34.4)	10.7 (40.3)	12.2 (46.3)
Fuel Type		Ultra-Low Sulfur Diesel ONLY ⁷		Ultra-Low Sulfur Diesel ONLY ⁷	
Fuel Tank Capacity	US Gal (L)	194 (735)		194 (735)	
Fuel Autonomy @ 75% load and 90% of fuel capacity	Hr	33.9	29.1	22.8	19.2
DEF Tank Capacity	US Gal (L)	11 (41.6)		11 (41.6)	

¹ All ratings are at a reference condition of 0' altitude and 20°C (72°F)

² Measured in accordance with ISO 2151 under free field conditions @ 23ft distance

³ Please see receptacle voltage configuration in Power Distribution section on page #7

⁴ Engine oil to meet CJ-4 (low ash oil)

⁵ Please see "Derate Table" for altitude and temperature calculations on page #6

⁶ Coolant Heater (120V) is a standard feature.

⁷ Engine and emissions require the use of Ultra Low Sulfur Diesel in accordance to ASTM-D975 Grade No. 1-D S15 & No. 2-DS15