

# Atlas Copco Generators

QAS18-338

15-360 kVA

15-300 kW



*Atlas Copco*

# Rugged and Dependable

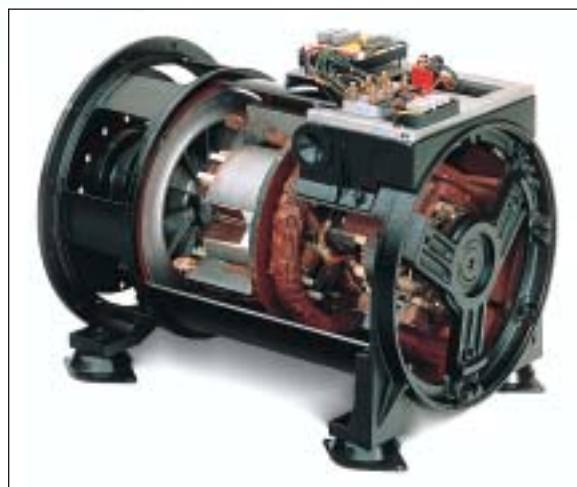


Whether you need a reliable source of electric power for the job site, or the peace of mind that comes from having on-site backup emergency power, QAS generator sets from Atlas Copco meet your needs.

QAS generators are rugged enough even for the most demanding construction environments. All units feature a heavy-duty skid base built from 1/4" steel, designed for 100% liquid containment. This eliminates the possibility of environmental contamination in the event of a fuel, oil, or coolant spill. Forklift slots and a heavy-duty lifting bale are included so moving the generator around the job site is safe and easy.

A heavy-duty canopy constructed from 14 gauge steel is standard on all units. Our high quality polyester powder-coat paint process ensures long lasting durability and superior corrosion resistance. All access doors are equipped with lockable, keyed-alike, recessed handles. An amber low fuel warning strobe is mounted on the roof to alert the operator that the fuel level has dropped below 15% reserve.

Because sound attenuation has always been an Atlas Copco strength, we have reduced the noise, vibration, and harshness (NVH) of the QAS generators to among the lowest dB(a) levels in the industry. QAS generators can provide the power you need, day or night, near even the most noise sensitive locations.



## Alternator

QAS generators are rated for continuous duty operation. The alternators used in the QAS generators are manufactured exclusively to our specifications by Mecc Alte. These four pole alternators incorporate brushless excitation and Class H insulation on both the rotor and the stator for superior resistance to heat buildup. The highest quality components are selected to provide long life under the most demanding conditions. You can keep working knowing that your QAS generator will work right along with you.

# Electric Power From A Source You Can Rely On



## Trailers

Atlas Copco has designed the QAS generators for easy mounting to our heavy duty, highway legal trailers. These high quality trailers include DOT-approved lighting, reflectors, and safety chains, and come equipped with your choice of hydraulic surge or electric braking systems. An auxiliary

double-wall fuel cell is incorporated into the trailer and comes piped to the generator's fuel system, greatly enhancing the unit's fuel autonomy. The trailer can be customized to meet your requirements with options including a lockable tool box, spare tire kit, and stabilizer jacks.

## Engine Controller

QAS generators are equipped with an easy-to-use engine controller offering remote start/stop as standard. The controller has LED shutdown indicators for system faults including high coolant temperature, low oil pressure, over-speed, under-voltage, and emergency stop, plus a spare contact that can be custom configured to a normally open or normally closed switch to suit your application. The controller can start the generator and accept 100% load within 10 seconds, complying with NFPA 110 Level 2 standards.

## Maintenance

Engine fluid drains are equipped with extensions to make changing oil and coolant relatively mess-free. The QAS 168 – 338 range is equipped with a sturdy oil drain pump\*. Service Paks containing the required consumable items for each recommended maintenance intervals are available from Atlas Copco.

\* *Optional on the QAS 18 –138.*



QAS 278-338



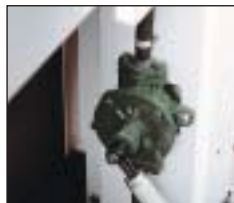
QAS 18-138



QAS 18-30-QAS 228

## Voltage Selection

Voltage is selected via a lockable rotary switch (3-position on the QAS 18-30 – QAS 228; 2-position on the QAS 278 – QAS 338). This eliminates the time consuming and complicated task of rewiring the generator terminal connections to switch voltage ranges.



# QAS 18-38 Generator Series

The QAS 18 – 38 range is equipped with Yanmar Diesel engines. These advanced engines include many noise reducing features to achieve low dB(a) levels and provide excellent load acceptance and stability while meeting EPA regulations. An engine coolant heater is standard and an isochronous electronic governor is optional. Yanmar engines are warranted for two years or 2000 hours, whichever occurs first, with parts and service available from Yanmar’s comprehensive North American distributor network.



Output Connections		
	QAS 18-1Ø	QAS 18-3Ø - 38
Outlet Studs	N /A	3/8"
50A-125/250V Temp Power	1	2
30A-125V L5 Twist Lock	1	0
20A-125V GFCI Duplex	1	1

## Control Panel

The lighted, easy-to-read control panel of the QAS allows the operator to monitor fuel level, engine coolant temperature\* and oil pressure\*. Individual ammeters monitor the amperage output on each leg, allowing the operator to easily identify load imbalances. Line-to-line and line-to-neutral voltage can be checked by rotating the seven-position switch on the panel. Output voltage can be fine-tuned by adjusting the potentiometer on the front panel. Arrays of NEMA-standard convenience receptacles, protected by individual branch circuit breakers, are provided to allow quick and easy connection to the unit.



QAS 18-1Ø



QAS 18-3Ø-38

\*Not on QAS 18-1Ø

# Powered by Yanmar Diesel

Model		QAS 18-1Ø	QAS 18-3Ø	QAS 28	QAS 38
Continuous kVA Rating	kVA	15	20	31	42
Continuous 3Ø kW Rating @ 0.8 P.F.	kW	N/A	16.5	25	35
Continuous 1Ø kW Rating @ 1.0 P.F.	kW	15	11.5	19	28
Voltage Selections	3Ø	N/A	208 220 240 416 440 460 480 Switchable		
Voltage Selections	1Ø	120 / 240		120 127 139 240 254 265 277 Switchable	
Low Voltage Circuit Breaker Thermal Trip	A	63	50	80	125
Low Voltage Circuit Breaker Magnetic Trip	A	3 - 5 x In	3 - 5 x In	3 - 5 x In	3 - 5 x In
High Voltage Circuit Breaker Thermal Trip	A	N/A	25	40	50
High Voltage Circuit Breaker Magnetic Trip	A	N/A	3 - 5 x In	3 - 5 x In	3 - 5 x In
<b>Alternator Model</b>		<b>ECO 28 1L</b>	<b>ECO 28 2L</b>	<b>ECO 32 1S</b>	<b>ECO 32 3S</b>
Voltage Regulation Accuracy		1.5%	1.5%	1%	1%
Frequency Droop Accuracy		3 - 5%*	3 - 5%*	3 - 5%*	3 - 5% *
Amperage Capability @ 120 V - 1Ø	A	2 x 63	2 x 50	2 x 80	2 x 125
Amperage Capability @ 240 V - 1Ø	A	63	50	80	125
Amperage Capability @ 208 V - 3Ø	A	N/A	50	80	117
Amperage Capability @ 240 V - 3Ø	A	N/A	48	72	101
Amperage Capability @ 480 V - 3Ø	A	N/A	25	40	50
Motor Starting Capability	hp	10	10	15	20
<b>Engine Model</b>		<b>4TNE88-ACG</b>	<b>4TNE88-ACG</b>	<b>4TNE94-ACG</b>	<b>4TNE98-ACG</b>
Engine Type		Four Cycle	Four Cycle	Four Cycle	Four Cycle
Aspiration		Natural	Natural	Natural	Natural
Number of Cylinders		4	4	4	4
Displacement	L	2.2	2.2	2.8	3.3
Horsepower Developed @ 1800 RPM	hp	26	26	42	53
Battery Voltage	V	12	12	12	12
Charging Alternator Output	A	40	40	40	40
Oil Sump Capacity	gal	2.5	2.5	2.75	2.75
Cooling System Capacity	gal	1.5	1.5	3.0	3.25
Fuel System Capacity	gal	17	21.5	21.5	21.5
Fuel Consumption @ 25% Load	GPH	0.3	0.3	0.4	0.6
Fuel Consumption @ 50% Load	GPH	0.5	0.6	0.8	1.1
Fuel Consumption @ 75% Load	GPH	0.8	0.9	1.2	1.7
Fuel Consumption @ 100% Load	GPH	1.1	1.3	1.6	2.2
Sound Level @ 23 Feet	dB(a)	65	67	68	68
<b>Skid Mounted Dimensions</b>	lxwxh	74x32x38		81.5x36.25x45.5	
Weight	** (dry)	lbs.	1574	2068	2183
Weight	*** (wet)	lbs.	1748	2293	2408
<b>Trailer Mounted Dimensions (optional)</b>	lxwxh	137x70x62		137x70x70	
Auxiliary Fuel Tank Capacity	gal.	50	50	50	50
Weight	** (dry)	lbs.	2434	2928	3043
Weight	*** (wet)	lbs.	2967	3512	3627

\* 0.25% when equipped with optional isochronous governor

\*\* Dry weight includes engine oil, coolant and battery

\*\*\* Wet weight includes engine oil, coolant, battery and fuel

# QAS 58-138 Generator Series

The QAS 58 – 138 range is equipped with engines from John Deere. These world class engines offer reliable operation, excellent fuel economy, and EPA compliance. The QAS 78 – 138 range includes an isochronous electronic governor as standard equipment\* offering frequency control within 0.25%, a must when the QAS is connected to computer systems and other sensitive



electronic equipment. The standard engine coolant heater facilitates easy starting at temperatures to 0° F. John Deere engines are warranted for two years or 2000 hours. Parts and service are available from John Deere's expansive nationwide network of authorized representatives.



Output Connections		
	QAS 58 - 78	QAS 108 - 138
Outlet Studs	1/2"	5/8"
50A-125/250V Temp Power	3	3
20A 125V GFCI Duplex	1	1

## External Fuel Connections

Connecting an external fuel supply to a QAS 108 – 338 generator is simple, thanks to leak-proof quick-connect supply and return ports. These ports are recessed to prevent accidental damage and the fittings are protected by rubber caps when not in use.

*\* An electronic governor is optional on the QAS 58.*

# Powered by John Deere Diesel

Model		QAS 58	QAS 78	QAS 108	QAS 138
Continuous kVA Rating	kVA	65	80	124	150
Continuous 3Ø kW Rating @ 0.8 P.F.	kW	52	65	100	125
Continuous 1Ø kW Rating @ 1.0 P.F.	kW	45	53	77	90
Voltage Selections	3Ø	208 220 240 416 440 460 480 Switchable			
Voltage Selections	1Ø	120 127 139 240 254 265 277 Switchable			
Low Voltage Circuit Breaker Thermal Trip	A	180	226	320	375
Low Voltage Circuit Breaker Magnetic Trip	A	625	750	3 - 10 x In	3 - 10 x In
High Voltage Circuit Breaker Thermal Trip	A	80	100	150	180
High Voltage Circuit Breaker Magnetic Trip	A	3 - 5 x In	400	625	750
Alternator Model		ECO 32 2L	ECO 34 1S	ECO 34 1L	ECO 34 2L
Voltage Regulation Accuracy		1%	1%	1%	1%
Frequency Droop Accuracy		3 - 5%*	0.25%	0.25%	0.25%
Amperage Capability @ 120 V - 1Ø	A	2 x 180	2 x 226	2 x 320	2 x 375
Amperage Capability @ 240 V - 1Ø	A	180	226	320	375
Amperage Capability @ 208 V - 3Ø	A	180	226	320	375
Amperage Capability @ 240 V - 3Ø	A	156	202	289	361
Amperage Capability @ 480 V - 3Ø	A	80	100	150	180
Motor Starting Capability	hp	25	35	50	60
Engine Model		4045TF150	4045TF250	6068TF250	6068HF150
Aspiration		Turbocharged	Turbocharged	Turbocharged	Turbocharged Intercooled
Number of Cylinders		4	4	6	6
Displacement	L	4.5	4.5	6.8	6.8
Horsepower Developed @ 1800 RPM	hp	90	102	150	218
Battery Voltage	V	12	12	12	12
Charging Alternator Output	A	45	45	45	45
Oil Sump Capacity	gal	3.5	3.5	4.5	6.2
Cooling System Capacity	gal	5.8	5.8	7.0	7.4
Fuel System Capacity	gal	40	40	70	70
Fuel Consumption @ 25% Load	GPH	1.7	1.7	2.4	2.5
Fuel Consumption @ 50% Load	GPH	2.3	2.7	4.3	4.6
Fuel Consumption @ 75% Load	GPH	3.3	3.7	5.5	6.9
Fuel Consumption @ 100% Load	GPH	4.0	4.8	6.8	7.8
Sound Level @ 23 Feet	dB(a)	69	69	69	71
Skid Mounted Dimensions	lxwxh	100.9x40.6x51.5		122x43.5x59.25	
Weight	** (dry)	lbs.	3401	3499	4638
Weight	*** (wet)	lbs.	3685	3783	5135
Trailer Mounted Dimensions (optional)	lxwxh	163x73x76		188x82x83	
Auxiliary Fuel Tank Capacity	gal.	90	90	107	107
Weight	** (dry)	lbs.	4501	4599	5938
Weight	*** (wet)	lbs.	5516	5614	7185

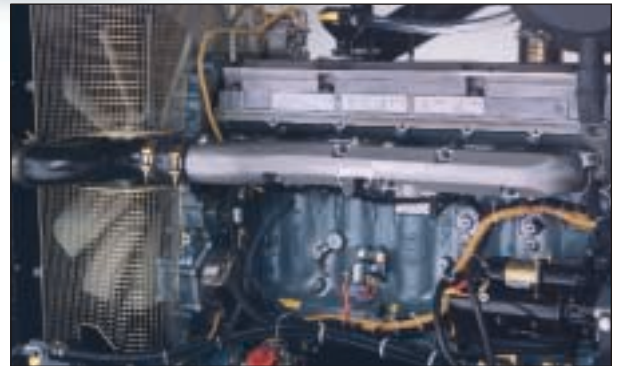
\* 0.25% when equipped with optional isochronous governor

\*\* Dry weight includes engine oil, coolant, and battery

\*\*\* Wet weight includes engine oil, coolant, battery, and fuel

# QAS 168-338 Generator Series

The QAS 168 – 338 generators are equipped with the popular Series 50 and Series 60 engines from Detroit Diesel. These advanced, electronically controlled engines offer unmatched stability and isochronous speed control. Detroit’s DDEC-IV engine control system provides the ultimate mix of horsepower, reliability, fuel economy and low emissions. Engine coolant heaters are standard. Detroit Diesel stands behind their engines with a one year / unlimited hour warranty, followed by a 3 year or 12,000 hour warranty on the engine block, crankshaft, and connecting rods. Detroit Diesel offers one of the largest and most comprehensive parts and service networks in the industry.



## Detroit Series Control Panel

In addition to the standard features incorporated into the smaller QAS units, the QAS 168 – 338 control panel includes provisions to connect to Atlas Copco’s Stand Alone Paralleling Equipment (SAPE) to synchronize and parallel multiple units together. Engine diagnostics and adjustments can be performed by connecting to the Diagnostic Data Link on the front panel.



Output Connections	
	QAS 168-338
Outlet Studs	5/8"
50A-125/250V Temp Power	2
20A-125V GFCI Duplex	1

## Detroit Series Engine Controller

The engine controller used on the QAS 168 – 338 builds upon the features of the QAS 18 – 138 engine controller. This module interfaces directly with DDEC for engine monitoring and shutdown. Engine faults can be quickly determined by using the diagnostic mode which allows readout of fault codes on the Check Engine and Stop Engine LEDs. Frequency adjustments can be easily accomplished using the fine adjustment potentiometer incorporated into the controller.



## Oil Makeup System

For maximum reliability and uptime, the QAS 168 – 338 range is equipped with an oil makeup system as standard. If the engine oil level should drop, a float switch and an electrically activated solenoid allow oil to drain from a remote reservoir into the crankcase to maintain proper oil level.

# Powered by Detroit Diesel

Model		QAS 168	QAS 228	QAS 278	QAS 338
Continuous kVA Rating	kVA	180	240	300	360
Continuous 3Ø kW Rating @ 0.8 P.F.	kW	150	200	250	300
Continuous 1Ø kW Rating @ 1.0 P.F.	kW	114	150	N/A	N/A
Voltage Selections	3Ø	208 220 240 416 440 460 480 Switchable			
Voltage Selections	1Ø	120 127 139 240 284 265 277 Switchable			
Low Voltage Circuit Breaker Thermal Trip	A	476	630	800	1000
Low Voltage Circuit Breaker Magnetic Trip	A	3 - 10 x In	3 - 10 x In	3 - 10 x In	3 - 10 x In
High Voltage Circuit Breaker Thermal Trip	A	216	290	360	435
High Voltage Circuit Breaker Magnetic Trip	A	3 - 10 x In	3 - 10 x In	3 - 10 x In	3 - 10 x In
<b>Alternator Model</b>		<b>ECO 37 1S</b>	<b>ECO 37 3S</b>	<b>ECO 37 2L</b>	<b>ECO 37 3L</b>
Voltage Regulation Accuracy		1%	1%	1%	1%
Frequency Droop Accuracy		0.25%	0.25%	0.25%	0.25%
Amperage Capability @ 120 V - 1Ø	A	2 x 476	2 x 630	N/A	N/A
Amperage Capability @ 240 V - 1Ø	A	476	630	N/A	N/A
Amperage Capability @ 208 V - 3Ø	A	476	630	800	1000
Amperage Capability @ 240 V - 3Ø	A	433	577	722	866
Amperage Capability @ 480 V - 3Ø	A	216	290	360	435
Motor Starting Capability	hp	75	100	125	150
<b>Engine Model</b>		<b>Series 50</b>	<b>Series 50</b>	<b>Series 60</b>	<b>Series 60</b>
Engine Type		Four Cycle	Four Cycle	Four Cycle	Four Cycle
Aspiration		Turbocharged	Turbocharged	Turbocharged	Turbocharged
		Intercooled	Intercooled	Intercooled	Intercooled
Number of Cylinders		4	4	6	6
Displacement	L	8.5	8.5	12.7	12.7
Horsepower Developed @ 1800 RPM	hp	209	274	340	416
Battery Voltage	V	24	24	24	24
Charging Alternator Output	A	70	70	70	70
Oil Sump Capacity	gal	7.0	7.0	9.5	9.5
Cooling System Capacity	gal	9.25	9.25	11.75	11.75
Fuel System Capacity	gal	126	126	126	126
Fuel Consumption @ 25% Load	GPH	2.5	3.4	3.9	4.6
Fuel Consumption @ 50% Load	GPH	4.9	6.9	7.7	9.1
Fuel Consumption @ 75% Load	GPH	7.4	10.3	11.5	13.7
Fuel Consumption @ 100% Load	GPH	9.9	13.7	15.3	18.3
Sound Level @ 23 Feet	dB(a)	72	72	72	72
<b>Skid Mounted Dimensions</b>	lxwxh	136x55x78.75		156x57x78.75	
Weight	** (dry)	lbs.	7849	8004	9239
Weight	*** (wet)	lbs.	8930	9151	10363
<b>Trailer Mounted Dimensions (optional)</b>	lxwxh	201x90x102		221x92x112	
Auxiliary Fuel Tank Capacity	gal.	200	200	300	300
Weight	** (dry)	lbs.	10616	10771	12803
Weight	*** (wet)	lbs.	13131	13352	16078

\*\* Dry weight includes engine oil, coolant, and battery

\*\*\* Wet weight includes engine oil, coolant, battery, and fuel



The face of interaction

What sets Atlas Copco apart? Our belief that, to excel, we must provide the best possible know-how and technology in ways that our customers value. Whether we're fully supporting existing products or advancing technology through innovation, we constantly focus on customer needs.

The Atlas Copco way of doing business grows from ongoing interaction, long-term relationships, and a commitment to understanding each customer's process and objectives. As a result, every compressed air solution we create helps a customer operate with greater efficiency, economy, and productivity.

Satisfying customer needs effectively has made Atlas Copco the number one compressor manufacturer in the world. We will continue to attract new business through our unwavering conviction to creating products and ideas that help our customers succeed.



Observe local and national code regulations relevant to the connection and operation of this equipment.

This information is general in nature and is not intended for specific construction, installation or application purposes.

Design and specifications are subject to change without notice or obligation.



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