QAS range

Efficient and relible power

LRC Markets

The mobile QAS generator

The QAS range is feature packed and comes with the ruggedness and reliability you demand from a generator. However, there are features that really set the QAS apart – we sum it up under the power of connectivity.

Firstly, QAS generators are built for multi-drop use and designed to be moved regularly. Whether that be a few metres or hundreds of miles, you can be assured of their easy, safe movement capabilities and guaranteed performance, even in the harshest conditions. This makes the QAS perfect for rental applications and heavy duty construction use.

These generators are also unrivalled when it comes to flexibility, thanks to their simple paralleling capability. We understand that your need for power can be ever changing. The modular design focusses on being able to connect multiple generators in the simplest way – making an installation that optimizes efficiency. The built-in Power Management System (PMS) enables the optimisation of fuel consumption and expands the generators' lifetime.

The QAS range provides complete power solutions, making this series the preferred choice for a wide range of applications throughout the world. Don't just invest in a power generator – Invest in a generator which has the power of connectivity!

SERVICE <2Hrs EVERY 1000Hrs

GRANTED 100% LOAD STEP CAPABILITY

UP TO 25% SMALLER FOOTPRINT

10 MVA STABLE POWER <15 SECONDS

50% HIGHER RESALE VALUE AFTER 5 YEARS

DUAL STAGE FILTERING, DOUBLE LIFETIME

*Not all the standards or options are available in all the range, for further information contact to Atlas Copco support.

IPP

QUARRY

CONSTRUCTION

EVENTS

MINING

INDUSTRY

OIL AND GAS

RETAIL AND RECREATION

UTILITIES

Versatile power

QAS range

1. LOW OPERATIONAL COST AND SHORT SERVICE TIME:

- Decreased service downtime due to heavy duty fuel filtration system with water separator
- Extend engine life time because of Dual Stage Air Filtration with safety cartrige
- Oil drain pump
- Lockable external fuel filling point

2. DESIGN TO QUICK AND SAFE INSTALLATION

- Plug and play cable connection
- Pass through cable path, natural bend and strain relief
- Plexi cover for terminal board protection

3. PUTTING YOU IN CONTROL

- Dual frequency > 40kVA
- Qc4004 + Qd0701 - Optional Qc2103 for Automatic Mains Failure (AMF) applications
- Qc4003 - Optional Qc4003 - Advance paralleling applications controller
- Auxiliary winding and PMG options

*Options available may change depending on model selected. Please consult with your local Atlas Copco customer centre.

4. INTEGRATED CONTROL AND POWER CUBICLE:

- Digital controller
- 4 Pole breaker
- Earth leakage protection
- Dedicated socket compartment
- Emergency stop

5. HIGH PERFORMANCE:

- High cooling performance radiator with ParCOOL for 100% prime power operation
- Sound attenuated and rugged galvanized steel enclosure

6. SAFE AND EFFICIENT TRANSPORT:

- Integrated lifting structure with single elevation point
- Sturdy multidrop base frame with integrated forklift pockets
- 110% self containment
- Transport bumpers

7. EASY ACCESS AND SERVICE:

- 1-side serviceability through big access doors and panels
- Access to alternator (AVR and diode bridge)
- Full access to engine
- Direct radiator cleaning access
- External drain points access

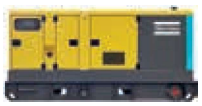
QAS range
Technical data




Electrical data		QAS 14	QAS 20	QAS 30	QAS 40	QAS 60	QAS 80	QAS 100
Rated frequency (1)	Hz	50	50 | 60	50 | 60	50	50 | 60	50 | 60	50 | 60
Rated voltage (2)	V	400	400 | 480	400 | 480	400	400 | 480	400 | 480	400 | 480
Prime power (PRP)	kVA / kW	14,1 / 11,3	20 / 16 | 24,3/19,5	30 / 24 | 36 / 29	40 / 32	60 / 48 | 67 / 54	80 / 64 | 93 / 75	100 / 80 | 114 / 91
Rated standby power (ESP)	kVA / kW	15,5 / 12,4	22 / 18 27 / 21,5	33 / 26 40 / 32	44 / 35	66 / 53 74 / 59	88 / 70 103 / 82	110 / 88 125 / 100
Power factor cos ϕ		0,8	0,8	0,8	0,8	0,8	0,8	0,8
Rated current (PRP)	A	20,4	29 | 30	43 | 44	58	87 | 81	115 | 112	150 | 137
Single step load acceptance (G2) acc. ISO-8528/5	%	100	100	100	77	85 | 95	90 | 100	80 | 85
Operating temperature (min/max)	ºC	-25 / 50	-25 / 50	-25 / 50	-25 / 50	-25 / 50	-25 / 50	-25 / 50
Fuel consumption								
Fuel tank capacity (Standard / optional long autonomy fuel tank)	l	115	115	92 / 282	92 / 282	149 / 298	250 / 592	250 / 592
Fuel consumption at 100% PRP load	l / h	3,7	4,9 | 5,3	7 | 8	9,5	14 | 17	19 | 22,8	23 | 26,7
Fuel autonomy at full load (Standard / optional long autonomy fuel tank)	h	30,5	23,5 | 21,5	13,2 / 37 | 11,5 / 32,2	9,7 / 27	10 / 20 | 7,5 / 16,5	12,1 / 28,7 | 10 / 24	10 / 23,7 | 8,6 / 20,4
Engine								
Model		KUBOTA D1703M-E4BG	KUBOTA V2403M-BG	KUBOTA V3300-IDI-BG	KUBOTA V3800-DI-T-E3BG	PERKINS 1104D-44TG2	PERKINS 1104D - E44TAG1	PERKINS 1104D - E44TAG2
Speed	rpm	1500	1500 | 1800	1500 | 1800	1500	1500 | 1800	1500 | 1800	1500 | 1800
Rated net power (with fan)	kWm	13,2	18,8 | 22,1	27 | 30,7	38	56,3 | 60	71,2 | 82	88,6 | 100
Aspiration		Natural aspired	Natural aspired	Natural aspired	Turbocharged and intercooled	Turbocharged and intercooled	Turbocharged and intercooled	Turbocharged and intercooled
Speed control		Electronic	Electronic	Electronic	Electronic	Mechanical / Electronic	Electronic	Electronic
Number of cylinders		3	4	4	4	4	4	4
Coolant		Parcool	Parcool	Parcool	Parcool	Parcool	Parcool	Parcool
Swept volume	l	1,7	2,4	3,3	3,8	4,4	4,4	4,4
Alternator								
Model		LEROY SOMER TAL 040 D	LEROY SOMER TAL 040 F	LEROY SOMER LSA 42.3 VS3	LEROY SOMER LSA 42.3 S5	LEROY SOMER LSA 42.3 L9	LEROY SOMER TAL 044 B	LEROY SOMER LSA 44.3 S5
Rated Output (ESP 27ºC)	kVA	16	22 | 27,5	35 | 42,4	45	66 | 79,5	88 | 110	110 | 131
Degree of protection / Insulation class		IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H
Excitation type / AVR model		AREP / R180	AREP / R180	SHUNT/ R220	SHUNT / R220	SHUNT / R220	AREP / R180	SHUNT / R250
Noise level								
Sound power level (LwA)	dB(A)	87	88 | 92	90 | 93	91	89 | 93	91 | 95	91 | 95
Sound pressure level (LpA) at 7m	dB(A)	59	60 | 64	62 | 65	63	61 | 65	63 | 67	63 | 67
Dimensions and weight (standard | with optional long autonomy fuel tank)								
Length	mm	1780	1780	2100	2100	2260	2850	2850
Width	mm	870	870	950	950	1050	1100	1100
Height	mm	1200	1200	1200	1200	1430	1620	1620
Weight (dry / wet)	kg	651 / 750	696 / 795	917 / 996 | 998 / 1241	962 / 104 | 1043 / 1286	1305 / 1433 | 1368 / 1624	1767 / 1982 | 1847 / 2356	1777 / 1992 | 1857 / 2366

(1) Other voltages available, please consult.
* Standard tank is already long autonomy

Not all the standards or options are available in all the range, for further information contact to Atlas Copco support




Electrical data		QAS 150	QAS 200	QAS 250	QAS 325	QAS 400	QAS 500	QAS 650
Rated frequency (1)	Hz	50 | 60	50 | 60	50 | 60	50 | 60	50 | 60	50 | 60	50 | 60
Rated voltage (2)	V	400 | 480	400 | 480	400 | 480	400 | 480	400 | 480	400 | 480	400 | 480
Prime power (PRP)	kVA / kW	150 / 120 | 171 / 137	200 / 160 | 225 / 180	250 / 200 | 255 / 204	325 / 260 | 345 / 276	405 / 324 | 418 / 334	500 / 400 | 587 / 470	653 / 522 | 685 / 548
Rated standby power (ESP)	kVA / kW	165 / 132 | 188 / 150	220 / 176 | 248 / 198	275 / 220 | 280 / 224	341 / 273 | 380 / 304	441 / 353 | 457 / 366	550 / 440 | 645 / 516	716 / 573 | 752 / 602
Power factor cos ϕ		0,8	0,8	0,8	0,8	0,8	0,8	0,8
Rated current (PRP)	A	216 | 206	288 | 270	360 | 307	469 | 415	584 | 502	722 | 706	942 | 824
Single step load acceptance (G2) acc. ISO-8528/5	%	60 | 75	80 | 95	57 | 75	60 | 70	60 | 70	62 | 68	53 | 64
Operating temperature (min/max)	°C	-25 / 50	-25 / 50	-25 / 50	-25 / 50	-25 / 50	-25 / 50	-25 / 50
Fuel consumption								
Fuel tank capacity (Standard / optional long autonomy fuel tank)	l	360 / 980	496 / 1470	469 / 1470	640 / 1775	640 / 1775	970	860
Fuel consumption at 100% PRP load	l / h	30,6 | 39	41,4 | 49	51,4 | 56	68 | 71	83 | 87	102,6 | 118,6	124,4 | 137
Fuel autonomy at full load (Standard / optional long autonomy fuel tank)	h	10,3 / 27,2 | 8 / 21,3	10 / 33 | 8,5 / 28	8 / 27 | 8,4 / 24,6	9 / 24 | 8 / 23	8 / 21 | 7 / 20	8,8 | 7,7	7,3 | 6,6
Engine								
Model		VOLVO TAD 751 GE / TAD 731 GE	VOLVO TAD 753 GE / TAD 733 GE	VOLVO TAD 754 GE / TAD 734 GE	VOLVO TAD 1351 GE / TAD 1341 GE	VOLVO TAD 1355 GE / TAD 1344 GE	VOLVO TAD 1651 GE / TAD 1641 GE	VOLVO TWD 1644 GE
Speed	rpm	1500 | 1800	1500 | 1800	1500 | 1800	1500 | 1800	1500 | 1800	1500 | 1800	1500 | 1800
Rated net power (with fan)	kWm	132 | 149	173 | 194	217 | 219	279 | 294	344 | 355	430 | 494	554 | 582
Aspiration		Turbocharged and intercooled	Turbocharged and intercooled	Turbocharged and intercooled	Turbocharged and intercooled	Turbocharged and intercooled	Turbocharged and intercooled	Turbocharged and intercooled
Speed control		Electronic EMS 2	Electronic EMS 2	Electronic EMS 2	Electronic EMS 2	Electronic EMS 2	Electronic EMS 2	Electronic EMS 2.3
Number of cylinders		6	6	6	6	6	6	6
Coolant		Parcool	Parcool	Parcool	Parcool	Parcool	Parcool	Parcool
Swept volume	l	7,15	7,15	7,15	12,8	12,8	16,12	16,12
Alternator								
Model		LEROY SOMER LSA 44.3 L10	LEROY SOMER LSA 44.3 VL14	LEROY SOMER LSA 46.3 S5	LEROY SOMER LSA 46.3 L10	LEROY SOMER LSA 47.2 S4	LEROY SOMER LSA 47.2 M7	LEROY OMER LSA 47.3 L10
Rated Output (ESP 27°C)	kVA	150 | 188	220 | 275	275 | 344	358 | 447	450 | 550	570 | 680	745 | 875
Degree of protection / Insulation class		IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H	IP 23 / H
Excitation type / AVR model		SHUNT / R250	SHUNT / R250	SHUNT/ R250	SHUNT / R250	SHUNT / R250	PMG / D350	PMG / D350
Noise level								
Sound power level (LwA)	dB(A)	96 | 99	97 | 99	97 | 99	97 | 99	98 | 100	97 | 100	100 | 104
Sound pressure level (LpA) at 7m	dB(A)	68 | 71	69 | 71	69 | 71	69 | 71	70 | 72	69 | 72	72 | 76
Dimensions and weight (standard | with optional long autonomy fuel tank)								
Length	mm	3380	3770	3770	4020	4020	4800	4800
Width	mm	1180	1200	1200	1390	1390	1550	1550
Height	mm	1700	1880	1880	2020	2020	2290	2290
Weight (dry / wet)	kg	2300 / 2610 | 2517 / 3360	2889 / 3292 | 3129 / 4393	2999 /3402 | 3239 / 4503	4185 / 4735 | 4395 / 5884	4485 / 5035 | 4695 / 6184	5594 / 6426	5941 / 6830 |

Wherever you need us

We deliver solutions around the world, in any application, to help you achieve your operational goals.


Atlas Copco
QAS 500

Optimize your power solutions

When you need temporary power, a single generator is not always the most efficient solution. Does the application load vary? Do any of the gensets in your fleet need higher power? A Modular Power Plant (or paralleling multiple generators) is the efficient solution if you answered yes to any of the these questions.

We have developed a unique Power Management System (PMS). The PMS manages the number of generators running in parallel with load demand, starting and stopping units in line with increases or decreases in load. In this way, the load on each generator remains at a level that optimizes fuel consumption.

It also eliminates the need for generators to run with low load levels, which can cause engine damage and shorten the life expectancy of the equipment.

Just one example:

The deployment of a **1MVA** generator as a prime power source, taking the load demand patterns of a typical industrial application as a guide, could mean **up to 1677 liters** of fuel consumed each day. That compares with approximately 1558 liters of fuel if three QAS 325 in the PMS were doing the same job. In this case, even considering the Ad-Blue cost, an estimated **annual saving of more than €30.000** makes for a compelling case, not to mention **85 tons of CO2 saved** over the course of a year.

Powerful match

Note: this data is simulated. It's based on a typical industrial daily load diagram.

Efficiently cover peaks and low loads

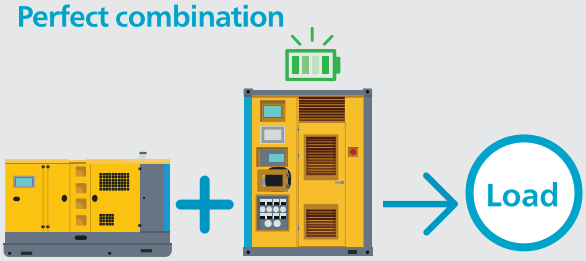
A hybrid energy solution that boosts performance

Sustainability is becoming a major concern in many machine-driven industries, as regulations regarding noise and emissions grow stricter. There is a need for a technological solution that provides reliable power in silent operation, while reducing fuel consumption and CO2 emissions. Energy Storage Systems (ESS) are transforming power supply as we know it, and Atlas Copco is leading the transition towards more sustainable operations.

Energy Storage Systems are ideally suited to noise-sensitive environments, such as events or metropolitan construction sites, telecoms or rental applications, and large units can work in parallel to become the 'brain' of a microgrid. Energy storage solutions featuring long-life, low-maintenance and high-density Lithium-ion batteries working in hybrid mode with power generators increase the solution's efficiency, especially when dealing with low loads and peaks in energy demand.

Using an Energy Storage System with a generator in hybrid mode enables you to use a smaller-sized generator, downsizing the solution, saving money on hardware, extending the generator's working life, optimizing performance levels and increasing the level of sustainability on site.

Perfect combination



QAS 325 ZBC 250-575

Potential savings

- 200 tons CO_2
- 900 trees
- 70 cars off the road
- 100.000 m^3 of waste

Scan this code and increase your productivity

Product portfolio

GENERATORS

PORTABLE
1,6–12 kVA

SPECIALIZED
9–660* kVA

VERSATILE
9–1250* kVA

LARGE POWER
800–1450 kVA

*Multiple configurations available to produce power for any size application

DEWATERING PUMPS

ELECTRIC SUBMERSIBLE
250–16.200 l/min

SURFACE PUMPS
833–23.300 l/min

ENERGY STORAGE SYSTEMS

ZENERGIZE
45-500* kVA

Diesel and electric options available

LIGHT TOWERS

DIESEL

BATTERY

ELECTRIC

ONLINE SOLUTIONS

SHOP ONLINE PARTS ONLINE

Spare parts for power equipment. We handle your orders 24 hours a day.

POWER CONNECT

Scan the QR code on your machine, and go to the QR Connect Portal to find all the information about your machine.

LIGHT THE POWER: YOUR SIZING TOOL

A useful calculator to help you choose the best solution for your power and light needs.

LighThe Power

FLEETLINK

Intelligent telematics is a system that helps optimize fleet usage and reduce maintenance, ultimately saving time and cutting operating costs.

CONNECTED FLEET LINK SECURED

PUMP SIZING CALCULATOR

With a few inputs, this pump sizing calculator will help you to compare dewatering submersible models and find the right one for you.

VISIT THE POWER ISLAND

Live a 360° experience to discover a selection of products and solutions that we offer, in an almost real environment.

360°