# THE POWER OF CONNECTIVITY

## QAS generators

جهان کمپرسور
Jahan Compressor

Atlas Copco

*Sustainable Productivity*

# THE POWER OF CONNECTIVITY
# QAS GENERATORS

**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!

<2H SERVICE EVERY 1000H

GRANTED 100% LOAD STEP CAPABILITY

20% LESS FOOTPRINT

10 MVA STABLE POWER <15 SECONDS

50% HIGHER RESALE VALUE AFTER 5 YEARS

DUAL STAGE FILTERING, DOUBLE LIFETIME

Data may change depending on models.

# WHEREVER YOU NEED POWER

The multi-drop solution.

Atlas Copco

www.atlascopco.com

# QAS range

## STANDARD FEATURES*

**Integrated control and power cubicle:**

- Qc1103 island mode (remote start) digital controller
- 4 Pole breaker with B-curve
- Earth leakage protection
- Dedicated socket compartment
- Emergency stop

**Superior accessibility:**

- 1-side serviceability (control panel side) 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

**Installation efficiency:**

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

## ELECTRICAL OPTIONS*

- Qc2103™ (AMF controller)
- Qc4003™ (Paralleling applications controller)
- Dual frequency with switch
- Insulation monitoring relay
- 3-phase sockets configurations (dedicated frequency)
- 1-phase socket 16 A (RIM, PIN or CEE version)
- Neutral EDF
- PMG alternator
- Battery charger and battery cut-off switch
- Coolant heater
- Multi voltage variant with voltage selector

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

**Transport efficiency:**

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

**Performance:**

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

**Service efficiency:**

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

## MECHANICAL OPTIONS*

- Quick couplings for external fuel tank connection
- Frame with integrated long autonomy fuel tank
- Undercarriage adjustable towbar with brakes
- Towing eyes
- Refinery equipment (spark arrestor and air shut off valve)
- Cold start (synthetic oil filling)
- Cold flow (fuel additive)
- Custom colors

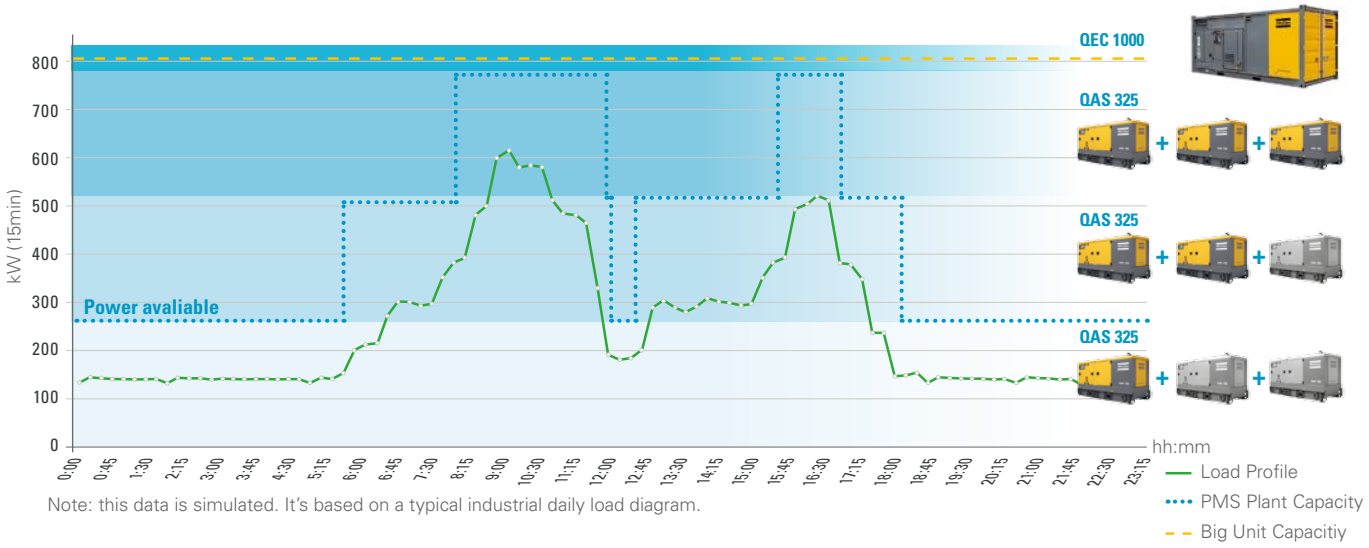
# MAKE THE PERFECT POWER

When you need power, maybe a single generator is not always the most efficient solution. Does the application load vary? Do you need prime power for long term projects on a remote site? Do you need a semi-permanent installation that can be upgraded or downgraded?

A **Modular Power Plant** (or paralleling multiple generators) is the efficient solution if you answered yes to any of the above questions. Simply, this is a configuration of generators working together.

* Optional from 80kVA.

We have developed a unique Power Management System (PMS). The PMS system enables the optimisation of fuel consumption and expands the generator's lifetime. PMS manages the quantity 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 which optimises 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.




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

**Just one example:**

The deployment of a **1MVA** generator as a prime power source, taking the demand patterns of a typical industrial application as a guide, could mean **up to 1,677 litres** of fuel being consumed each day. That compares with approximately 1,558 litres of fuel if three 325 kVA generators were doing the same job. In this case, an estimated **annual fuel saving of €30,000** makes for a compelling case, not to mention **85 tons of $CO_2$ saved** over the course of a year.

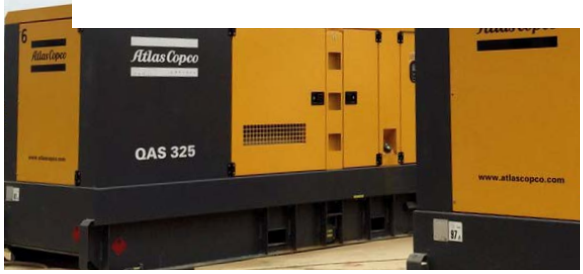
# THE POWER OF CONNECTIVITY

## QAS generators

24/7 x 365 in over 180 countries.
Power is critical – there is no room for compromise!

*Sustainable Productivity*

Atlas Copco



# 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 \| 60 | 50 \| 60 | 50 \| 60 | 50 | 50 \| 60 | 50 \| 60 | 50 \| 60 |
| Rated voltage (2) | V | 400 \| 480 | 400 \| 480 | 400 \| 480 | 400 | 400 \| 480 | 400 \| 480 | 400 \| 480 |
| Prime power (PRP) | kVA / kW | 13,6 / 11 \| 16 / 13 | 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 / 12 \| 17,6 / 14,3 | 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 | 19,6 \| 19,3 | 29 \| 30 | 43,3 \| 43,6 | 57,8 | 86,8 \| 81,2 | 115,5 \| 112,2 | 150 \| 137 |
| Single step load capability (G2) acc. ISO-8528/5 | % | 100 | 100 | 100 | 77 | 85 \| 95 | 90 \| 100 | 80 \| 85 |
| **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 | 3,5 \| 4,3 | 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 | 33 \| 26,7 | 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 (EU Stage 3A / EU Stage 2 (3)) | | KUBOTA D1703M | KUBOTA V2403M-BG | KUBOTA V3300DI | KUBOTA V3800DI | PERKINS 1104D-44TG3 \| 1104D-44TG2 | PERKINS 1104D-E44TAG1 | PERKINS 1104D-E44TAG2 |
| Speed | rpm | 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 | 1500 | 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 |
| Rated net power (with fan) | $kW_m$ | 12,8 \| 15,1 | 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 | Turbocharged and intercooled | Turbocharged and intercooled | Turbocharged and intercooled |
| Speed control | | Electronic | Electronic | Electronic | Electronic | Mechanical / Electronic | Electronic | Electronic |
| No. 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 LSA 40 S3 | LEROY SOMER LSA 40 M5 | LEROY SOMER LSA 42.3 VS3 | LEROY SOMER LSA 42.3 S5 | LEROY SOMER LSA 42.3 L9 | LEROY SOMER LSA 44.3 S3 | LEROY SOMER LSA 44.3 S5 |
| Rated Output (ESP 27°C) | kVA | 16,5 \| 20 | 22 \| 27 | 35 \| 42,4 | 45 | 66 \| 79,5 | 88 \| 105 | 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 |
| **Noise level** | | | | | | | | |
| Sound power level (LwA) | dB(A) | 86 \| 90 | 88 \| 92 | 91 \| 93 | 91 | 90 \| 93 | 92 \| 95 | 92 \| 95 |
| Sound pressure level (LpA) at 7m | dB(A) | 58 \| 62 | 60 \| 64 | 63 \| 95 | 63 | 62 \| 65 | 64 \| 67 | 64 \| 67 |

(1) 60Hz models available, please consult.
(2) Other voltages available, please consult.
(3) For EU Stage 2 basic data contact to Atlas Copco support.

| QAS 125 | QAS 150 | QAS 200 | QAS 250 | QAS 325 | QAS 400 | QAS 500 | QAS 630 |
|---|---|---|---|---|---|---|---|
| 50 \| 60 | 50 \| 60 | 50 \| 60 | 50 \| 60 | 50 \| 60 | 50 \| 60 | 50 \| 60 | 50 \| 60 |
| 400 \| 480 | 400 \| 480 | 400 \| 480 | 400 \| 480 | 400 \| 480 | 400 \| 480 | 400 \| 480 | 400 \| 480 |
| 125 / 100 \| 147 / 117 | 150 / 120 \| 171 / 137 | 200 / 160 \| 225 / 180 | 250 / 200 \| 255 / 204 | 325 / 260 \| 345 / 276 | 400 / 324 \| 418 / 334 | 500 / 400 \| 587 / 470 | 629 / 503 \| 688 / 550 |
| 137 / 110 \| 161 / 129 | 165 / 132 \| 188 / 150 | 220 / 176 \| 248 / 198 | 275 / 220 \| 280 / 224 | 341 / 273 \| 380 / 304 | 445 / 356 \| 460 / 368 | 550 / 440 \| 645 / 516 | 700 / 560 \| 756 / 605 |
| 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 | 0,8 |
| 180 \| 176 | 216,5 \| 205,7 | 288 \| 270 | 360 | 469 \| 415 | 585 \| 503 | 722 \| 706 | 908 \| 827 |
| 70 \| 85 | 60 \| 75 | 80 \| 95 | 57 \| 75 | 60 \| 70 | 60 \| 70 | 62 \| 68 | 53 \| 64 |
| | | | | | | | |
| 360 / 980 | 360 / 980 | 496 / 1470 | 469 / 1470 | 640 / 1775 | 640 / 1775 | 911 | 911 |
| 26 \| 32 | 30,6 \| 39 | 41,4 \| 49 | 51,4 \| 56 | 68 \| 71 | 83 \| 87 | 102,6 \| 118,6 | 124,4 \| 136,9 |
| 12 / 32 \| 9,8 / 26 | 10,3 / 27,2 \| 8 / 21,3 | 10 / 33 \| 8,5 / 28 | 8 / 27 \| 8,4 / 24,6 | 9 / 24 \| 8 / 23 | 7 / 20 | 8,8 \| 7,7 | 7,3 \| 6,6 |
| | | | | | | | |
| VOLVO TAD 750 GE / TAD 730 GE | 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 1643 GE |
| 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 | 1500 \| 1800 |
| 114 \| 127 | 132 \| 149 | 173 \| 194 | 217 \| 219 | 279 \| 294 | 344 \| 355 | 430 \| 494 | 536 \| 585 |
| Turbocharged and intercooled | Turbocharged and intercooled | Turbocharged and intercooled | Turbocharged and intercooled | Turbocharged and intercooled | Turbocharged and intercooled | Turbocharged and intercooled | Turbocharged and intercooled |
| Electronic EMS 2 | Electronic EMS 2 | Electronic EMS 2 | Electronic EMS 2 | Electronic EMS 2 | Electronic EMS 2 | Electronic EMS 2 | Electronic EMS 2 |
| 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| Parcool | Parcool | Parcool | Parcool | Parcool | Parcool | Parcool | Water |
| 7,15 | 7,15 | 7,15 | 7,15 | 12,8 | 12,8 | 16,12 | 16,12 |
| | | | | | | | |
| LEROY SOMER LSA 44.3 M6 | LEROY SOMER LSA 44.3 L10 | LEROY SOMER LSA 46.2 M5 | LEROY SOMER LSA 46.2 L6 | LEROY SOMER LSA 46.2 VL13 | LEROY SOMER LSA 47.2 S4 | LEROY SOMER LSA 47.2 M7 | LEROY SOMER LSA 49.1 S4 |
| 125 \| 156 | 150 \| 188 | 223 | 324 \| 275 | 341 \| 412 | 450 \| 550 | 570 \| 680 | 660 \| 792 |
| IP 23 / H | IP 23 / H | IP 23 / H | IP 23 / H | IP 23 / H | IP 23 / H | IP 23 / H | IP 23 / H |
| | | | | | | | |
| 97 \| 99 | 97 \| 99 | 97 \| 99 | 97 \| 99 | 97 \| 99 | 98 \| 100 | 99 \| 100 | 101 \| 103 |
| 69 \| 71 | 69 \| 71 | 69 \| 71 | 69 \| 71 | 69 \| 71 | 70 \| 72 | 71 \| 72 | 73 \| 75 |

Data may change depending on models.

# COMPACT AND LIGHTWEIGHT

## DIMENSIONS & WEIGHT

| Dimensions and weight | | QAS 14 | QAS 20 | QAS 30 | QAS 40 | QAS 60 | QAS 80 | QAS 100 |
|---|---|---|---|---|---|---|---|---|
| Dimensions: L x W x H | mm | 1780 x 870 x 1200 | | 2100 x 950 x 1200 | | 2260 x 1050 x 1430 | 2850 x 1100 x 1620 | |
| Dimensions: w/optional long fuel tank | mm | * | | 2100 x 950 x 1500 | | 2260 x 1050 x 1570 | 2850 x 1100 x 1740 | |
| Weight : dry/net | Kg | 651 / 750 | 696 / 795 | 917 / 996 | 962 / 1041 | 1305 / 1433 | 1767 / 1982 | 1777 / 1992 |
| Weight: w/optional long fuel tank | Kg | * | * | 998 / 1241 | 1043 / 1286 | 1368 / 1624 | 1847 / 2356 | 1857 / 2366 |

| Dimensions and weight | | QAS 125 | QAS 150 | QAS 200 | QAS 250 | QAS 325 | QAS 400 | QAS 500 | QAS 500 |
|---|---|---|---|---|---|---|---|---|---|
| Dimensions: L x W x H | mm | 3380 x 1180 x 1700 | | 3770 x1200 x 1880 | | 4020 x 1390 x 2020 | | 4800 x 1550 x 2290 | |
| Dimensions: w/optional long fuel tank | mm | 3380 x 1180 x 2100 | | 3770 x1200 x 2240 | | 4020 x 1390 x 2310 | | * | |
| Weight: dry/net | Kg | 2230 / 2540 | 2300 / 2610 | 2889 / 3292 | 2999 / 3402 | 4185 / 4735 | 4485 / 5035 | 5594 / 6426 | 5941 / 6830 |
| Weight: w/optional long fuel tank | Kg | 2447 / 3290 | 2517 / 3360 | 3129 / 4393 | 3239 / 4503 | 4395 / 5884 | 4695 / 6184 | * | * |

*Standard tank is already long autonomy.

**Check out videos on all of our products**
**Visit www.youtube.com/atlascopcoconstruct**

# PERFORMANCE IN ANY CONDITIONS

## QAS generators

www.atlascopco.com

# PORTABLE ENERGY SOLUTIONS PORTFOLIO

## AIR COMPRESSORS

### READY TO GO
- 1-5 m³/min
- 7-12 bar

### VERSATILITY
- 7-22 m³/min
- 7-20 bar

### PRODUCTIVITY PARTNER
- 19-64 m³/min
- 10-35 bar

Diesel and electric options available.

## GENERATORS

### PORTABLE
- 1,6-13,9 kVA

### MOBILE
- 9-1250* kVA

### INDUSTRIAL
- 10-1250* kVA

*Multiple configurations available to produce power for any size application.

## DEWATERING PUMPS

### ELECTRIC SUBMERSIBLE
- 275-16.500 l/min

### DIESEL DRIVEN CANOPY
- 833-9833 l/min

### DIESEL DRIVEN OPEN FRAME
- 3300-7500 l/min

## LIGHT TOWERS

### LED

### METAL HALIDE

### SOLAR

Portfolio can change in different places in the world.

## COMMITTED TO SUSTAINABLE PRODUCTIVITY

Atlas Copco's Portable Energy division has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

**www.atlascopco.com**

Atlas Copco

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