

# FULLY LOADED GENERATORS

Greater than one megawatt of power in a 20-foot container

*Sustainable Productivity*

*Atlas Copco*




# Fully loaded power

The containerised generator range comes fully loaded as standard, with all the sophisticated options you could ever need. We package 1MW of predictable power in a custom 20-foot container. We focus on low noise levels coupled with industry-leading efficiency levels.


Perfect for the most demanding conditions and usage requirements, QAC and QEC generators were designed to offer our customers a choice when it comes to choosing the product that is right for their power needs. What's more, we offer the widest range of options and features, for those who need something a little out of the ordinary.



**NOISE LEVEL**  
AS LOW AS  
**70dB(A)**  
AT 7M



**AMBIENT  
TEMPERATURE**  
**>40°C**



**LONG SERVICE  
INTERVAL (HRS)**  
**500**



**REDUCED  
FUEL  
CONSUMPTION**



**GRANTED 100% LOAD  
STEP  
CAPABILITY**



**ISO 20-FOOT  
CONTAINER**





***The QAC range offers maximum power  
with minimum fuel consumption***

*Sustainable Productivity*



# Container generators, your choice

## The fuel saver – QAC range

The QAC generator is a real fuel saver. The **electric** VSD (Variable Speed Drive) motor-driven, cooling fan, adjusts the cooling flow to the specific requirements of the engine. It may sound simple, but this engineering sets the QAC generator apart. In addition, a low noise level of 70dB(A) at 7 meters, makes the QAC generators a great choice for applications that are at the heart of the working environment.

70dB(A)  
at 7m



500H  
SERVICE  
INTERVAL



FUEL EFFICIENT



**-10%** FUEL CONSUMPTION AT FULL LOAD = **-480** LITERS Per day → **-175.000** LITERS Per year

## The toughest container – QEC range

The QEC generator packs a punch! Up to one megawatt of containerised power that can be easily transported from one worksite to the next. Extremely reliable, it is the flexible solution for your prime and critical standby power needs in rental, mining, and oil and gas applications.

ROBUST



1MW  
OF RELIABLE  
POWER



Atlas Copco



## COMMON BENEFITS

### POWER MANAGEMENT SYSTEM

To tackle the biggest jobs these generators can run alone or in parallel with other generators. You have the choice of island mode or using the Power Management System (PMS). You can also run them in parallel with mains, peak shaving, fixed power and AMF.

### FULLY LOADED

Due to their intelligent cooling system we can ensure 100% power at **40°C** at an altitude of 1000m (a.s.l.).

### LONG LIFESPAN

Every component has been designed and tested to ensure a long and productive lifespan with a high resale value.

### EASY TO TRANSPORT

The 20-foot ISO container facilitates easy and fast transportation. Strong lifting eyes and forklift slots allow for swift on-site maneuvering.



### HEAVY-DUTY FILTRATION

Heavy-duty dual stage fuel and air filtration is included as standard, for longer up-time and extended service intervals.

### QUALITY COMPONENTS

The three-phase, auto excited and auto regulated, synchronous and brushless alternator sets the range apart. We also feature a Permanent Magnet Generator (PMG), auxiliary exciting supply and an anti-condensation heater, all designed to

### SLIDE IN/OUT BASE FRAME

The aggregate engine alternator can be easily and quickly removed from the container for maintenance and other operational tasks via a slide in/out concept.

### LOW MAINTENANCE

The range comes with large access panels and several service tools ensure effortless maintenance and reduced downtime.

# 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.

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. Everything needed come as standard with QAC generators, and are optionally available for the QEC models.

## The power of connectivity

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

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## TECHNICAL DATA



| Performance data                                 |                 | QAC 1000                     |             | QAC 1250                   |             | QEC 800                      |            | QEC 1000                    |             | QEC 1250                   |             |
|--|-----------------|------------------------------|-------------|----------------------------|-------------|------------------------------|------------|-----------------------------|-------------|----------------------------|-------------|
| Rated frequency (1)                              | Hz              | 50                           | 60          | 50                         | 60          | 50                           | 60         | 50                          | 60          | 50                         | 60          |
| Rated voltage (2)                                | V               | 400                          | 480         | 400                        | 480         | 400                          | 480        | 400                         | 480         | 400                        | 480         |
| Prime power (PRP)                                | kVA/<br>kW      | 1000 / 800                   | 1175 / 940  | 1250 / 1000                | 1445 / 1156 | 800 / 640                    | 922 / 737  | 1000 / 800                  | 1146 / 917  | 1250 / 1000                | 1404 / 1123 |
| Rated standby power (LTP)                        | kVA/<br>kW      | 1079 / 863                   | 1289 / 1031 | 1289 / 1031                | 1614 / 1291 | 878 / 702                    | 1008 / 806 | 1100 / 880                  | 1271 / 1017 | 1375 / 1100                | 1577 / 1262 |
| Power factor cos φ                               |                 | 0,8                          |             | 0,8                        |             | 0,8                          |            | 0,8                         |             | 0,8                        |             |
| Rated current (PRP)                              | A               | 1443                         | 1413        | 1804                       | 1738        | 1154                         | 1109       | 1443                        | 1378        | 1804                       | 1688        |
| Single step load capability (G2) acc. ISO-8528/5 | %               | 55                           | 70          | 65                         | 70          | 60                           | 65         | 55                          | 60          | 50                         | 70          |
| Operating temperature (min/max)                  | °C              | -25                          | 50          | -25                        | 50          | -25                          | 50         | -25                         | 40          | -25                        | 50          |
| Fuel consumption                                 |                 |                              |             |                            |             |                              |            |                             |             |                            |             |
| Fuel tank capacity                               | l               | 1500                         |             | 1500                       |             | 1370                         |            | 1370                        |             | 1370                       |             |
| Fuel consumption at 100% PRP load                | l/h             | 181                          | 220         | 241                        | 275         | 147                          | 169        | 189,3                       | 223,72      | 250,7                      | 284         |
| Fuel autonomy at full load                       | h               | 8,3                          | 6,8         | 6,2                        | 5,5         | 9,31                         | 8,1        | 7,2                         | 6,1         | 5,46                       | 4,82        |
| Engine   |                 |                              |             |                            |             |                              |            |                             |             |                            |             |
| Model  |                 | CUMMINS<br>QST 30 G4         |             | CUMMINS<br>KTA 50 G3       |             | CUMMINS<br>QSK 23 G3         |            | CUMMINS<br>QST 30 G4        |             | CUMMINS<br>KTA 50 G3       |             |
| Speed  | rpm             | 1500                         | 1800        | 1500                       | 1800        | 1500                         | 1800       | 1500                        | 1800        | 1500                       | 1800        |
| Rated net output (PRP)                           | kW <sub>m</sub> | 880                          | 1007        | 1097                       | 1220        | 682                          | 776        | 853                         | 965         | 1074                       | 1182        |
| Aspiration                                       |                 | Turbocharged and intercooled |             |                            |             | Turbocharged and intercooled |            |                             |             |                            |             |
| Speed control                                    |                 | Electronic                   |             | Electronic                 |             | Electronic                   |            | Electronic                  |             | Electronic                 |             |
| Number of cylinders                              |                 | 12                           |             | 16                         |             | 6                            |            | 12                          |             | 16                         |             |
| Coolant  |                 | Parcool                      |             | Parcool                    |             | Parcool                      |            | Parcool                     |             | Parcool                    |             |
| Swept volume                                     | l               | 30,5                         |             | 50,3                       |             | 23,1                         |            | 30,5                        |             | 50,3                       |             |
| Alternator                                       |                 |                              |             |                            |             |                              |            |                             |             |                            |             |
| Model  |                 | LEROY SOMER<br>LSA 49.1 L11  |             | LEROY SOMER<br>LSA 50.2 M6 |             | LEROY SOMER<br>LSA 49.1 M75  |            | LEROY SOMER<br>LSA 49.1 L11 |             | LEROY SOMER LSA<br>50.2 M6 |             |
| Rated Output (ESP 27°C)                          | kVA             | 1000                         | 1250        | 1250                       | 1560        | 800                          | 960        | 1000                        | 1250        | 1250                       | 1560        |
| Degree of protection / Insulation class          |                 | IP 23                        |             | IP 23                      |             | IP 23 / H                    |            | IP 23 / H                   |             | IP 23 / H                  |             |
| Excitation type / AVR model                      |                 | PMG / R450T                  |             | PMG / R450T                |             | SHUNT / R450M                |            | SHUNT / R450M               |             | SHUNT / R450M              |             |
| Noise level                                      |                 |                              |             |                            |             |                              |            |                             |             |                            |             |
| Sound power level (LwA)                          | dB(A)           | 97                           | 99          | 98                         | 99          | 102                          | 105        | 103                         | 106         | 103                        | 107         |
| Sound pressure level (LpA) at 7m                 | dB(A)           | 70                           | 72          | 71                         | 72          | 77,1                         | 80,1       | 78,1                        | 81,1        | 78,1                       | 82,1        |
| Dimensions and weight                            |                 |                              |             |                            |             |                              |            |                             |             |                            |             |
| Length   | mm              | 6060                         |             | 6060                       |             | 6060                         |            | 6060                        |             | 6060                       |             |
| Width  | mm              | 2440                         |             | 2440                       |             | 2440                         |            | 2440                        |             | 2440                       |             |

# Portable Energy Solutions Portfolio

## AIR COMPRESSORS

### READY TO GO

- 1-5 m<sup>3</sup>/min
- 7-12 bar



### VERSATILITY

- 5,5-22 m<sup>3</sup>/min
- 7-20 bar



### PRODUCTIVITY PARTNER

- 19-116 m<sup>3</sup>/min
- 10-345 bar



Diesel and electric options available

## GENERATORS

### PORTABLE

- 1,6-12 kVA



### MOBILE

- 9-1250\* kVA



### INDUSTRIAL

- 10-1250\* kVA



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

## DEWATERING PUMPS

### ELECTRIC SUBMERSIBLE

- 250-16.500 l/min



### CENTRIFUGAL

- 833-23.300 l/min



### SMALL PORTABLE

- 210-2500 l/min



Diesel and electric options available

## LIGHT TOWERS

### LED



### METAL HALIDE



### ELECTRIC



## 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](http://www.atlascopco.com)

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