

# ***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***

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# 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

500<sup>H</sup>  
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 extend the lifetime of the machine.

### 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.

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# *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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*Atlas Copco*





## 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 / 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 / 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 QST 30 G4		CUMMINS KTA 50 G3		CUMMINS QSK 23 G3		CUMMINS QST 30 G4		CUMMINS 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 LSA 49.1 L11		LEROY SOMER LSA 50.2 M6		LEROY SOMER LSA 49.1 M75		LEROY SOMER LSA 49.1 L11		LEROY SOMER LSA 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	
Height	mm	2590		2590		2590		2590		2590	
Weight (dry / wet)	kg	14.140 / 15.380		15.780 / 17.608		12.150 / 13.960		13.550 / 15.300		15.835 / 17.100	



# 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



Diesel and electric options available

### PRODUCTIVITY PARTNER

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



## 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



Diesel and electric options available

### SMALL PORTABLE

- 210-2500 l/min



## 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.

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