








QEC RANGE

Containerized generator range



QEC RANGE CONTAINERIZED PREDICTABLE POWER

The Atlas Copco QEC generators packs a punch, up to 1 megawatt of containerized power that can be easily transported from one worksite to the next. Supremely reliable, it is the flexible solution for your prime and critical standby power needs in the rental, mining and oil & gas industries.

Performance	
Service efficiency	
Resale value and long lifespan	
Versatility	
Transport efficiency	

The **QEC range** allows you to specify the configuration of your generator through a wide range of useful options. You can customize everything from the power output to the required level of noise suppression.

We will configure according to your requirements before your generator leaves the factory (Options listed below) or we will provide you with retrofit kits in order you can make changes after purchase quickly and efficiently.

APPLICATIONS



POWER MANAGEMENT SYSTEM

With the optional **Qc4003™ controller**, two or more QEC units can be put into parallel. It is a flexible power solution for loads that exceed the output capability of a single generator set. This type of **power management system** can also be used to provide continuous power when one of the gensets needs to be shut down for scheduled maintenance or repair.



ADJUSTABLE CONTROL PANEL POSITION

The control panel can be switched from a high to a low position for easy and safe operation when the unit is trailer mounted.

OPTIONS

- Qc4003™ controller (Paralleling with PMS - Power Management System)
- Earth leakage relay
- Battery Charger
- Digital AVR
- PMG excitation system
- Coolant heater (electric or fuel driven)
- EFT - external fuel tank connections
- Automatic fuel transfer system
- Oil make-up system
- Spark arrestor
- Air shutdown valve
- Customized colour





QUALITY COMPONENTS

A III phase, auto excited and auto regulated, synchronous and brushless type **Leroy Somer alternator** is available as standard with an optional Permanent Magnet Generator (PMG) for the auxiliary exciting supply. Its powerful and fast voltage build-up system provides short circuit capability and better electrical motor starting. A 12 cylinder **Cummins engines** powers with the flexibility and precision you require. The reliable workhorse of generator engines, get the job done even in the toughest conditions.



HEAVY-DUTY FILTRATION

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



EASY TRANSPORT

The QEC comes in a standard ISO CSC container for easy transportation to the most remote worksites. **Forklift slots** and **lifting eyes** are also integrated.



LOW MAINTENANCE

The QEC Range offers enduring performance thanks to its **long service intervals** of 250 hours. Large **access panels and several service tools** ensure effortless maintenance and reduced downtime. Just two examples: a dedicated door for easy cleaning of the engine coolers and directly accessible power cable connections.



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.



LONG LIFESPAN

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

QEC

THE FULL RANGE

Performance data		QEC 800		QEC 1000		QEC 1250	
Rated frequency	Hz	50	60	50	60	50	60
Rated speed	r/min	1500	1800	1500	1800	1500	1800
Rated power factor (lagging)		0,8	0,8	0,8	0,8	0,8	0,8
Rated prime power (PRP)	kVA / kW	800 / 640	922 / 737	1000 / 800	1146 / 917	1250 / 1000	1404 / 1123
Rated standby power (LTP)	kVA / kW	878 / 702	1008 / 806	1100 / 880	1271 / 1017	1375 / 1100	1577 / 1262
Rated voltage (line to line)	V	400	480	400	480	400	480
Rated current (PRP)	A	1154	1109	1443	1378	1804	1688
Max. sound power level (LWA) acc. to 2000/14/EC OND	dB(A)	102	105	103	106	103	107
Max. sound pressure level (LPA) at 7m (23ft)	dB(A)	77,1	80,1	78,1	81,1	78,1	82,1
Capacity fuel tank / with optional long autonomy fuel tank	l	1370		1370		1370	
Fuel consumption at full load (PRP)	l / h	147	169	189,3	223,72	250,7	284
Fuel autonomy at full load	h	9,31	8,1	7,2	6,1	5,46	4,82
Single step load capability (G2) acc. ISO-8528/5	%	60	65	55	60	50	70
Operating temperature (min./max.)	°C (°F)	-25°C(-13°F) / 50°C (122°F)		-25°C(-13°F) / 40°C (104°F)		-25°C(-13°F) / 50°C(122°F)	

Alternator		QEC 800		QEC 1000		QEC 1250	
Model Leroy Somer		LSA 49.1 M75		LSA 49.1 L11		LSA 50.2 M6	
Degree of protection / Insulation class		IP 23 / H		IP 23 / H		IP 23 / H	
Rated Output	kVA	800	960	1000	1250	1250	1560

Engine		QEC 800		QEC 1000		QEC 1250	
Model Cummins		QSK 23 G3		QST 30 G4		KTA 50 G3	
Rated net output (PRP)	kW _m	682	776	853	965	1074	1182
Speed governor		Electronic		Electronic		Electronic	
Number of cylinders		6		12		16	
Swept volume	l	23,1		30,5		50,3	
Coolant		Parcool		Parcool		Parcool	
Aspiration		Turbocharged and intercooled		Turbocharged and intercooled		Turbocharged and intercooled	
Emission compliance		NA		NA		NA	

Unit dimensions		QEC 800		QEC 1000		QEC 1250	
L x W x H	m	6,06 x 2,44 x 2,59		6,06 x 2,44 x 2,59		6,06 x 2,44 x 2,59	
Weight (dry / wet)	kg	12.150 / 13.960		13.550 / 15.300		15.835 / 17.100	

(*) Reference conditions for engine performance to ISO 3046/1-1995.

PREDICTABLE POWER

Atlas Copco Predictable Power brings customers in the on-site generator and power generation business peace of mind with solutions that combine low cost of ownership, reliable performance and risk-free operation. Predictable Power is our core value and the guiding principle for how we design, test, build, commission and service our generators.

Atlas Copco

DIMENSIONS

Dimensions LxWxH
(standard 20ft container CSC)

6.06 x 2.44 x 2.59
20ft CSC – ISO container



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