



Atlas Copco



The versatile QES generators

LRC markets

The mobile QES generator

A portable generator is an essential part of any company's performance network. It needs to be reliable, flexible and able to efficiently deliver under tough conditions, in any application. Our renewed QES range offers new-generation models that fit all applications: mobile and stationary, prime and standby. As versatile as they are, they provide reliable power with the lighter and most compact design in the market.

We have extended our QES range with the new models up to 1250 kVA PRP to ensure we offer the generator that's right for your business. Built to our time-tested design principles, used across our entire generator portfolio, the QES range offers you modular capabilities and room for upgrading and expansion; along with being designed for simple installation and exceptional reliability. These versatile open new possibilities of customization and raise the bar of service efficiency.

 AMBIENT TEMPERATURE UP TO 50°C	 WATER-PROOF CANOPY	 STABLE POWER <10 SECONDS
100% LOAD STEP CAPABILITY 	 3 LEVELS (<50kVA MODELS)	SERVICE INTERVAL (HRS) 500 
 GALVANIZED FORKLIFT SLOTS IN FRAME	SPILLAGE FREE FRAME UP TO 1250 kVA 	 <2 Hrs SERVICE

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



Versatile power for mobiles and stationary applications

QES

Designed with the customer in mind

1. SUPERIOR ACCESSIBILITY:

- Optimal serviceability through big access doors and panels
- Access to alternator (AVR and diode bridge)
- Full access to engine
- Direct radiator cleaning access panel

2. PERFORMANCE:

- High cooling performance radiator with ParCOOL for 100% standby power operation
- Sound attenuated and anti-corrosion steel enclosure
- Alternator IP23 with optional Auxiliary Winding⁽¹⁾
- Electronic governor engine and electronic engines

3. PLUG AND PLAY CONNECTION:

- Plug and play cable connection
- Pass through cable path, natural bend and strain relief
- Rain cap
- Hot parts, fan and belt protection⁽¹⁾

4. TRANSPORT EFFICIENCY:

- Integrated forklift slots (Galvanized > 180kVA)
- Lifting structure with single external elevation point⁽²⁾
- Retention bund 110% self containment with level sensor alarm⁽¹⁾

⁽¹⁾ Optional

⁽²⁾ Optional on some models

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





5. NOISE PROTECTION:

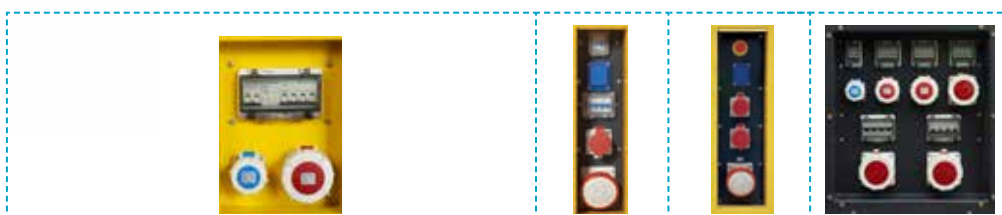
- Sound attenuated and C3M anticorrosion protection canopy

6. SERVICE EFFICIENCY:

- Decreased service downtime due to heavy duty fuel filtration system with water separator⁽²⁾ > 65kVA
- Dual stage air filtration
- Oil drain pump⁽¹⁾ > 380kVA
- 500hrs Service interval (With expectation of 9-14-20kVA with 250h and 180 and 250kVA with 400h)

7. INTEGRATED CONTROL AND POWER CUBICLE:

- DSE 46/4520 digital controller for local and remote start
- 4 Pole breaker & battery charger⁽¹⁾
- Emergency stop
- Dedicated socket compartment⁽¹⁾



	QES 9		QES 14-20		QES 30-40	QES 60-250	QES 380-640
Standard Controller	DSE 4620		DSE 4620		DSE 4620	DSE 4620	DSE 4520
Single phase socket	O1	O2	O1	O2	1	1	-
CEE 230V2P+G 16A	1	2	1	2	-	-	1
CEE 400V3P+N+G 16A	1	-	-	-	1	1	1
CEE 400V3P+N+G 32A	-	-	1	-	-	1	1
CEE 400V3P+N+G 63A	-	-	-	-	1	1	1
CEE 400V3P+N+G 125A	-	-	-	-	-	-	2

Efficient power with a smaller footprint

The QES range comes with a broad list of optional features that allows you to adapt our models to any type of application, mobile and stationary, primer and standby. We always tailor our solutions to your needs, and this range is not an exception. From an open generator to a rugged reinforced mobile skid, you name it and the QES models will deliver!

Putting you in control

It's your generator,
have it your way!



⚡ Electrical options

- Earth leakage relay
- Sockets panel
- Alternator heater for safe and secure starting
- Fleetlink Communication module
- Battery switch, block coolant heater, battery charger, and earth stick
- Expansions modules for inputs and outputs
- Remote annunciator and remote display
- An automatic fuel transfer system
- Auxiliary winding for inrush starting capability
- Qc2212 Advance digital controller for AMF, remote and local start applications
- Qc3501 and Qc3012 Advance digital controllers for parallel

🔧 Mechanical options

- Open and canopy version
- Synthetic oil
- Hot parts protection
- Oil sump pump
- High capacity fuel tank
- Water separator fuel pre-filter
- Lifting beam with an external hook
- Galvanized extra skid
- Transport bumpers
- Spillage free liquid detection sensor
- External fuel connection (EFT) with quick couplings



A Super Compact Solution

Super quiet, compact, and lightweight, not the usual adjectives that you would choose for conventional generators. However, the new super compact models are lighter and smaller than ever, and they still ensure power efficiency without compromising performance. In addition to their smaller dimensions, the new models offer reliable power thanks to their state-of-the-art Automatic Voltage Regulator (AVR) and engine speed control.

With exceptional reliability, we offer the most versatile solution in the market, with the lighter and most compact design. These generators, which make transportation and installation easy, are suitable for a broad variety of appliances with low to medium power requirements. While delivering excellent power quality, QES super compact models bring significant savings and business advantages.

The innovative super compact QES model is designed to grant the most efficient transportation. You can fit up to 30 units of Atlas Copco QES 20 in a 40 feet container, the most for a 20kVA power generator in the market! It means optimized transport, reduced CO2 emissions and operational costs, which results in a lower Total Cost of Ownership (TCO). Its environmentally friendly design makes it ideal for storage overseas, reducing exponentially your footprint on-site.

The most versatile combination



Compact design optimized for overseas transportation (30 units QES 20 in 40ft container)

QES range

Technical data

50Hz



Electrical data		QES 9	QES 14	QES 20	QES 30	QES 40	QES 60
Rated frequency	Hz	50	50	50	50	50	50
Exhaust gas emission compliance		/	/	/	/	/	/
Rated voltage (1)	V	400	400	400	400	400	400
Prime power (PRP)	kVA / kW	8.8/7	13.8/11	20/16	32/26	42/34	60/48
Rated standby power (ESP)	kVA / kW	10/8	15/12	21.3/17	33/26	45/36	64/51
Power factor cos φ		0,8	0,8	0,8	0,8	0,8	0,8
Rated current (PRP)	A	12,6	19,9	28,9	46,2	60,0	86,6
Performance class acc. ISO-8528/5		G1	G2	G1	G2	G2	G2
Operating temperature (min/max) (2)	°C	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2
Fuel consumption							
Fuel tank capacity (Standard / 24h / 48h)	l	54 / 125 / 250	54 / 125 / 250	54 / 125 / 250	116 / 303 / 604	116 / 303 / 604	104 / 347 / 600
Fuel consumption at 100% PRP load	l / h	2,4	3,8	4,97	7,3	8,3	13,3
Fuel autonomy at full load (Standard / 24-48H / 1000l fuel tank)	h	22 / 52 / 103	14 / 32 / 65	10,8 / 25 / 50	16 / 42 / 83	14 / 37 / 73	8 / 26,0 / 45
Control panel							
Model - standard		DSE4620	DSE4620	DSE4620	DSE4620	DSE4620	DSE4620
Battery Charger (Optional)		DSE9150	DSE9150	DSE9255	DSE9150	DSE9150	DSE9255
Engine							
Model		D1105-E3BG2	D1703-M-E4BG2	V2403-M-E3BG2	V3300-E2BG	V3800DI-T-E2BG	4BTA3.9-G2
Speed	rpm	1500	1500	1500	1500	1500	1500
Rated net power	kWm	8,6	13,2	21,3	31	34,1	58
Aspiration		Natural	Natural	Natural	Natural	Turbo charger	Turbo charger
Speed control		Mechanical	Mechanical+Electronic	Mechanical+Electronic	Electronic governor	Electronic governor	Electronic governor
Number of cylinders		3	3	4	4	4	4
Coolant		water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled
Swept volume	l	1,12	1,65	2,43	3,3	3,8	3,9
Alternator							
Model		ACA160D	ACA160E	ACA180E	ACA180E	ACA180G	ACA225D
Rated Output (ESP 163°/27°C / PRP 125°/40°C)	kVA	13,5	16	22,5	33/32	45/42.5	63.5/60
Degree of protection / Insulation class		IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H
Excitation type / AVR model		Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460
Noise level							
Sound power level (LwA)	dB(A)	91	95	93	93	94	94
Sound pressure level (LpA) at 7m	dB(A)	65	69	67	67	66	68
Dimensions and weight							
Length x width	mm	1540x700	1540x700	1540x700	2225x970	2225x970	2280x980
Height (Standard / 24h / 48h*)	mm	1130/1250/1480	1130/1250/1480	1130/1250/1480	1185/1408/1741	1185/1408/1741	1265/1583/1754
Weight (Standard / 24h / 48h*)	kg	560/585/640	635/660/715	680/705/760	876/1180/1300	896/1200/1300	1175/1350/1400
Skid dimensions (L x W x H)	mm	2135 x 720 x 245	2135 x 720 x 245	2135 x 720 x 245	2599 x 960 x 150	2599 x 960 x 150	2594 x 960 x 150
Skid weight	kg	55	55	55	137	137	137

(1) Other voltages available, please consult.

(2) Depending on models, some additional options are available for low temperatures. Derating may apply for high temperature / altitude
*125kVA



Electrical data		QES 80	QES 100	QES 125	QES 180	QES 250	QES 380	QES 450	QES 500	QES 640
Rated frequency	Hz	50	50	50	50	50	50	50	50	50
Exhaust gas emission compliance		/	/	/	/	/	Stage 2	Stage 2	Stage 2	Stage 2
Rated voltage (1)	V	400	400	400	400	400	400	400	400	400
Prime power (PRP)	kVA / kW	90/72	100/80	125/100	180/144	250/200	380/304	450/360	500/400	637/509
Rated standby power (ESP)	kVA / kW	96/77	112/90	135/108	194/155	272/218	414/331	502/402	555/444	705/564
Power factor cos φ		0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8
Rated current (PRP)	A	129,9	144,3	180,4	259,0	360,0	548,5	649,5	721,7	919,0
Performance class acc. ISO-8528/5		G2	G2	G2	G2	G2	G2	G2	G2	G2
Operating temperature (min/max) (2)	°C	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2
Fuel consumption										
Fuel tank capacity (Standard / 24h / 48h)	l	260 / 650 / 1300	260 / 650 / 1300	260 / 650 / 1300	520 / 900	520 / 900	605	605	980	980
Fuel consumption at 100% PRP load	l / h	18,9	20,5	25,6	36,5	46,0	76,3	90,6	127,6	131,1
Fuel autonomy at full load (Standard / 24-48H / 1000l fuel tank)	h	14 / 34 / 79	13 / 31 / 63	10 / 25 / 50	14.3 / 25	11.3 / 19.6	7,9	6,7	7,7	7,5
Control panel										
Model - standard		DSE4620	DSE4620	DSE4620	DSE4620	DSE4620	DSE4520mkII	DSE4520mkII	DSE4520mkII	DSE4520mkII
Battery Charger (Optional)		DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255
Engine										
Model		6BT5.9-G2	6BT5.9-G2	6BTAA5.9-G2	6CTA8.3-G2	6LTAA8.9-G2	TAD1343GE	TAD1345GE	TAD1641GE	TWD1643GE
Speed	rpm	1500	1500	1500	1500	1500	1500	1500	1500	1500
Rated net power	kW/m	86	96	120	158	215	325	388	430	536
Aspiration		Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger
Speed control		Electronic governor	Electronic governor	Electronic governor	Electronic governor	Electronic governor	Electronic	Electronic	Electronic	Electronic
Number of cylinders		6	6	6	6	6	6	6	6	6
Coolant		water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled
Swept volume	l	5,9	5,9	5,9	8,3	8,9	12,8	12,8	16,1	16,1
Alternator										
Model		ACA225G	ACA270B	ACA270C	ACA270F	ACA270J	ACA315F	ACA315H	ACA355C	ACA355E
Rated Output (ESP 163°/27°C / PRP 125°/40°C)	kVA	95.8/90	112/100	135/125	194/180	275/250	415/380	505/450	590/550	738/670
Degree of protection / Insulation class		IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H
Excitation type / AVR model		Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/AS440	Shunt/AS440	Shunt/AS440	Shunt/AS440
Noise level										
Sound power level (LwA)	dB(A)	94	93	93	102	102	104	104	104	104
Sound pressure level (LpA) at 7m	dB(A)	68	70	74	73	73	77	77	78	77
Dimensions and weight										
Length x width	mm	2920x1098	2920x1098	2920x1098	3410x1250	3410x1250	4580x1500	4580x1500	4580x1500	4590x1850
Height (Standard / 24h / 48h*)	mm	1643 / 1854 / 2228.5	1643 / 1854 / 2228.5	1643 / 1854 / 2228.5	2224 / 2407	2224 / 2407	2105	2105	2401	2401
Weight (Standard / 24h / 48h*)	kg	1484 / 1774 / 1908	1514 / 1804 / 1938	1558 / 1848 / 1982	2394 / 2537	2924 / 3067	4322	4391	5868	6341
Skid dimensions (L x W x H)	mm	2960 x 1070 x 130	2960 x 1070 x 130	2960 x 1070 x 130	3810 x 1340 x 200	3810 x 1340 x 200	4999 x 1510 x 150	4999 x 1510 x 150	5009 x 1860 x 150	5009 x 1860 x 150
Skid weight	kg	73,9	73,9	73,9	205	205	240	240	362	362

QES range

Technical data

60Hz



Electrical data		QES 10	QES 17	QES 25	QES 35	QES 50	QES 70
QES10	QES17	60	60	60	60	60	60
Exhaust gas emission compliance		/	/	/	/	/	/
Rated voltage (1)	V	220	220	220	220	220	480
Prime power (PRP)	kVA / kW	10/8	17.5/14	25/20	34/27	48,4/39	70/56
Rated standby power (ESP)	kVA / kW	11.3/9	15/12	26.3/21	36/29	53/42	78/63
Power factor cos φ		0,8	0,8	0,8	0,8	0,8	0,8
Rated current (PRP)	A	26,2	45,9	65,6	88,2	127	85,9
Performance class acc. ISO-8528/5		G1	G1	G1	G2	G2	G2
Operating temperature (min/max) (2)	°C	-0,2	-0,185	-0,2	-0,2	-0,2	-0,2
Fuel consumption							
Fuel tank capacity (Standard / 24h / 48h)	l	54 / 125 / 250	54 / 125 / 250	54 / 125 / 250	116 / 303 / 604	116 / 303 / 604	104 / 347 / 600
Fuel consumption at 100% PRP load	l / h	2,7	4,8	6,1	7,9	11,8	15,9
Fuel autonomy at full load (Standard / 24-48H / 1000l fuel tank)	h	20 / 46.3 / 92.6	11.4 / 26 / 52	9 / 20.5 / 41	15 / 38 / 76	10 / 25.7 / 51.2	6.5 / 21.8 / 37.7
Control panel							
Model - standard		DSE4620	DSE4620	DSE4620	DSE4620	DSE4620	DSE4620
Battery Charger (Optional)		DSE9150	DSE9150	DSE9150	DSE9150	DSE9150	DSE9255
Engine							
Model		D1105-E2BG	D1703-E2BG	V2 403-M-E2BG	V3300-E2BG	V3800DI-T-E2BG	4BTA3.9-G2
Speed	rpm	1800	1800	1800	1800	1800	1800
Rated net power	kWm	10,5	16,7	25	33,7	48,1	71,8
Aspiration		Natural	Natural	Natural	Natural	Turbo charger	Turbo charger
Speed control		Mechanical	Mechanical	Mechanical + Electronic	Electronic governor	Electronic governor	Electronic governor
Number of cylinders		3	3	4	4	4	4
Coolant		water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled
Swept volume	l	1,123	1,647	2,434	3,3	3,8	3,9
Alternator							
Model		ACA160D	ACA160E	ACA180C	ACA180E	ACA180G	ACA225D
Rated Output (ESP 163°/27°C/RP 125°/40°C)	kVA	17	20	30	40/37.5	53.5/50	81/75
Degree of protection / Insulation class		IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H
Excitation type / AVR model		Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460
Noise level							
Sound power level (LwA)	dB(A)	92	95	93	93	92	94
Sound pressure level (LpA) at 7m	dB(A)	66	69	67	69	69	65
Dimensions and weight							
Length x width	mm	1540x700	1540x700	1540x700	2225x970	2225x970	2280x980
Height (Standard / 24h / 48h*)	mm	1130 / 1250 / 1480	1130 / 1250 / 1480	1130 / 1250 / 1480	1185 / 1408 / 1741	1185 / 1408 / 1741	1185 / 1408 / 1741
Weight (Standard / 24h / 48h*)	kg	560 / 585 / 640	635 / 660 / 715	685 / 705 / 760	876 / 1180 / 1300	896 / 1200 / 1300	1175 / 1350 / 1400
Skid dimensions (L x W x H)	mm	2135 x 720 x 245	2135 x 720 x 245	2135 x 720 x 245	2599 x 960 x 150	2599 x 960 x 150	2594 x 960 x 150
Skid weight	kg	55	55	55	137	137	137

(1) Dual frequency models available as an option, please consult. (2) Other voltages available, please consult.

(3) Depending on models, some additional options are available for low temperatures. Derating may apply for high temperature / altitude
*≤125kVA



Electrical data		QES 110	QES 120	QES 140	QES 185	QES 260	QES 415	QES 460	QES 575	QES 695
Rated frequency	Hz	60	60	60	60	60	60	60	60	60
Exhaust gas emission compliance		/	/	/	/	/	/	/	/	/
Rated voltage (1)	V	480	480	480	480	480	480	480	480	480
Prime power (PRP)	kVA / kW	108/87	122/98	140/112	186/149	262/210	414/331	461/369	577/462	695/556
Rated standby power (ESP)	kVA / kW	118/94	134/107	153/122	204/163	286/229	451/361	503/402	644/515	760/608
Power factor cos φ		0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8
Rated current (PRP)	A	130,4	147,9	168,7	224,3	315,3	498,8	554	694,8	836,5
Performance class acc. ISO-8528/5		G2	G2	G2	G2	G2	G2	G2	G2	G2
Operating temperature (min/max) (2)	°C	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2
Fuel consumption										
Fuel tank capacity (Standard / 24h / 48h)	l	260 / 650 / 1300	260 / 650 / 1300	260 / 650 / 1300	520 / 900	520 / 900	605	605	980	980
Fuel consumption at 100% PRP load	l / h	24,4	25,2	32,5	37,8	51,1	81,9	91,6	121,4	123,2
Fuel autonomy at full load (Standard / 24-48H / 1000l fuel tank)	h	11 / 26 / 53	10 / 25 / 51	8 / 20 / 40	13.8 / 24	10.2 / 17.6	6,3	5,7	7,6	7,5
Control panel										
Model - standard		DSE4620	DSE4620	DSE4620	DSE4620	DSE4620	DSE4520mkII	DSE4520mkII	DSE4520mkII	DSE4520mkII
Battery Charger (Optional)		DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255	DSE9255
Engine										
Model		6BT5.9-G2	6BT5.9-G2	6BTAA5.9-G2	6CTA8.3-G2	6LTAA8.9-G2	TAD1343GE	TAD1345GE	TAD1641GE	TWD1644GE
Speed	rpm	1800	1800	1800	1800	1800	1800	1800	1800	1800
Rated net power	kWm	105,3	122,3	136,4	170	235	353	392	489	585
Aspiration		Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger	Turbo charger
Speed control		Electronic governor	Electronic governor	Electronic governor	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Number of cylinders		6	6	6	6	6	6	6	6	6
Coolant		water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled	water-cooled
Swept volume	l	5,9	5,9	5,9	8,3	8,9	12,8	12,8	16,1	16,1
Alternator										
Model		ACA225G	ACA270B	ACA270C	ACA270F	ACA270J	ACA315F	ACA315H	ACA355C	ACA355E
Rated Output (ESP 163°/27°C/PRP 125°/40°C)	kVA	119/103	139/126	162/150	231	315	469	500	644	825
Degree of protection / Insulation class		IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H	IP23/H
Excitation type / AVR model		Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/SX460	Shunt/AS440	Shunt/AS440	Shunt/AS440	Shunt/AS440
Noise level										
Sound power level (LwA)	dB(A)	98	100	102	104	106	107	107	108	109
Sound pressure level (LpA) at 7m	dB(A)	75	75	77	78	83	80	81	82	83
Dimensions and weight										
Length x width	mm	2920x1098	2920x1098	2920x1098	3410x1250	341x1250	4580x1500	4580x1500	4590x1850	4590x1850
Height (Standard / 24h / 48h*)	mm	1643 / 1854 / 2228.5	1643 / 1854 / 2228.5	1643 / 1854 / 2228.5	2224 / 2407	2224 / 2407	2105	2105	2401	2401
Weight (Standard / 24h / 48h*)	kg	1484 / 1774 / 1908	1514 / 1804 / 1938	1558 / 1848 / 1982	2394 / 2537	2924 / 3067	4322	4391	5868	6341
Skid dimensions (L x W x H)	mm	2960 x 1070 x 130	2960 x 1070 x 130	2960 x 1070 x 130	3810 x 1340 x 200	3810 x 1340 x 200	4999 x 1510 x 150	4999 x 1510 x 150	5009 x 1860 x 150	5009 x 1860 x 150
Skid weight	kg	73,9	73,9	73,9	205	205	240	240	362	362

QES range

Technical data

Large Power



Electrical data		QES 800	QES 800 DF	QES 900	QES 1000	QES 1000 DF	QES 1150	QES 1250	QES 1250 DF
Rated frequency ⁽¹⁾	Hz	50	50 60	50	50	50 60	50	50	50 60
Exhaust gas emission compliance		Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Rated voltage ⁽²⁾	V	400	400 480	400	400	400 480	400	400	400 480
Prime power (PRP)	kVA/kW	800 / 640	800 / 640 783 / 626	910 / 728	1011 / 808	1011 / 808 1107 / 885	1144 / 915	1270 / 1016	1270 / 1016 1232 / 985
Rated standby power (ESP)	kVA/kW	874 / 699	874 / 699 861 / 689	1015 / 812	1115 / 892	1115 / 892 1215 / 973	1250 / 1000	1420 / 1136	1420 / 1136 1355 / 1084
Power factor cos φ		0,8	0,8	0,8	0,8	0,8	0,8	0,8	0,8
Rated current (PRP)	A	1154	1154 942	1313	1458	1458 1331	1650	1832	1832 1482
Performance class acc. ISO-8528/5		G3	G3	G3	G3	G3	G3	G3	G3
Operating temperature (min/max) ⁽³⁾	°C	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2	-0,2

Fuel consumption

Fuel tank capacity (Standard/24-48H/1000l fuel tank)	l	1100	1100	1400	1400	1400	1400	1400	1400
Fuel consumption at 100% PRP load	l/h	163	163 156	180	198	198 225	223	246	247 246
Fuel autonomy at full load (Standard/24-48H/1000l fuel tank)	h	6,7	6,7 7	7,8	7,1	7,1 6,2	6,3	5,7	5,7 5,7

Engine

Model		MTU 12V2000G26F	MTU 12V2000B76	MTU 16V2000G16F	MTU 16V2000G26F	MTU 16V2000B76	MTU 16V2000G36F	MTU 18V2000G26F	MTU 18V2000B76
Speed	rpm	1500	1500 1800	1500	1500	1500 1800	1500	1500	1500 1800
Rated net power (with fan)	kWm	709	709 716	806	890	890 998	1000	1102	1102 1097
Aspiration		Turbocharged with aftercooler	Turbocharged with aftercooler	Turbocharged with aftercooler	Turbocharged with aftercooler	Turbocharged with aftercooler	Turbocharged with aftercooler	Turbocharged with aftercooler	Turbocharged with aftercooler
Speed control		Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Number of cylinders		12	12	16	16	16	16	18	18
Coolant		Coolant	Coolant	Coolant	Coolant	Coolant	Coolant	Coolant	Coolant
Swept volume	l	26,8	26,8	35,7	35,7	35,7	35,7	40,2	40,2

Alternator

Model		Mecc Alte ECO43-1S	Mecc Alte ECO43-1S	Mecc Alte ECO43-1M	Mecc Alte ECO43-1M	Mecc Alte ECO43-1M	Mecc Alte ECO43-2M	Mecc Alte ECO43-2L	Mecc Alte ECO43-2L
Rated Output (ESP 27°C/PRP 40°C)	kVA	874 / 800	874 / 800 1008 / 960	1120 / 1025	1120 / 1025	1120 / 1025 1300 / 1250	1250 / 1150	1420 / 1300	1420 / 1300 1630 / 1560
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	IP 23 / H
Excitation type/AVR model		MAUX / DER1	MAUX / DER1	MAUX / DER1	MAUX / DER1	MAUX / DER1	MAUX / DER1	MAUX / DER1	MAUX / DER1

Noise level

Sound power level (LwA)	dB(A)	103	103	103 107	104	107	107 108	107	105 108
Sound pressure level (LpA) at 7m	dB(A)	75	75	75 79	76	79	79 80	79	77 80

Dimensions and weight

Length (standard/skid)	mm	5600	5600	6500	6500	6500	6500	6500	6500
Width (standard/skid)	mm	1860	1860	2040	2040	2040	2040	2040	2040
Height (Standard/24-48H/1000l fuel tank)	mm	2430	2430	2680	2680	2680	2680	2680	2680
Weight wet without fuel (Standard/24-48H/1000l fuel tank)	kg	9220	9220	11500	11650	11650	11800	12920	12920

(1) Dual frequency models available as an option, please consult. (2) Other voltages available, please consult.

(3) Depending on models, some additional options are available for low temperatures. Derating may apply for high temperature / altitude.



Built for you

We design and engineer environmentally sustainable products that are driven by innovation.

Two large, yellow and black industrial generators are shown on wooden pallets. The generators have a boxy, rectangular design with various vents, control panels, and electrical connections visible. They are positioned outdoors on a concrete surface.

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 QES 380 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.

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.

Powerful match

Powerful match

1000 kVA Genset

QES 380

QES 380

QES 380

Power available

Load Profile

PMS Plant Capacity

Big Unit Capacity

hh:mm

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

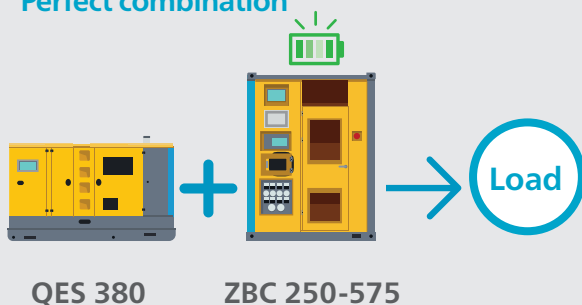
Sustainability is increasingly becoming a major concern in many machine-driven industries, as regulations regarding noise and emissions are growing stricter. There is a need for a technological solution that provides reliable power in silent operation, while reducing fuel consumption and CO2 emissions. 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 for 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, specially 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 rising the level of sustainability on site.

Perfect combination



Potential savings



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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

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ELECTRIC SUBMERSIBLE 250–16.200 l/min



SURFACE PUMPS 833–23.300 l/min



Diesel and electric options available

ENERGY STORAGE SYSTEMS

ZENERGIZE 45–500* kVA

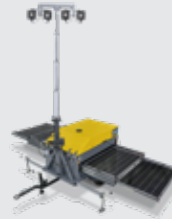


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