Generators QAC 1000 DV
AML: Data

		Dual frequency	Dual Voltage
Reference conditions [1) 4)]			
1.Rated frequency	Hz	50	60
2.Rated speed	rpm	1500	1800
3.Generator service duty		PRP	PRP
4.Absolute inlet pressure	kPa	100	100
5.Relative air humidity	%	30	30
6.Air inlet temperature	°C	25	25
Limitations [2)]			
1.Maximum ambient temperature	°C	40	40
2.Altitude capability	m	1000	1000
3.Relative air humidity maximum	%	85	85
4.Minimum starting temperature unaided	°C	0	0
5.Minimum starting temperature with heater	°C	-25	-25
Performance data [2) 3) 4) 5)]			
1.Rated active power (LTP) 3ph	kW	880 797	1000 831
Rated active power (PRP) 3ph	kW	800 797	912 831
2.Rated power factor (lagging) 3phase		0.80 0.80	0.80 0.8
3.Rated apparent power (LTP) 3ph	kVA	1100 996	1250 1039
Rated apparent power (PRP) 3ph	kVA	1000 996	1140 1039
4.Rated voltage line to line voltage	V	400 230	480 240
5.Rated current (LTP) 3ph.	A	1588 2500	1503 2500
Rated current (PRP) 3ph.	A	1443 2500	1371 2500
6. Performance class (acc.ISO 8528-5:1993)		G2	G2
Single step load acceptance (0-PRP)		65%	75%
7. Frequency droop	%	0	0
		isochronous	isochronous
8.Fuel consumption at full load/no load	kg/h	159,3 / 17	188,5 / 18,9
9.Specific fuel consumption	kg/kWh	0.199	0.207
10.Fuel autonomy at full load	h	8.1	6.8
11.Max. oil consumption at full load	g/h	478	566
12.Maximum sound power level (LWA) measured according to 2000/14/EC OND (measured @ 75% PRP load)	dB(A)	97	102
13. Capacity of fuel tank	l	1500	1500
14. Single step load capability (0-PRP)	%	100	100
Application data			
1.Mode of operation		PRP	PRP
2.Site		land use	land use
3.Operation		single/parallel	single/parallel
4.Start-up and control mode		manual/auto	manual/auto
5.Start-up time		unspecified	unspecified
6,Mobility/ Config. acc. to ISO 8528-1:1993		transportable/D	transportable/D
7.Mounting		fully resilient	fully resilient
8.Climatic exposure		open air	open air
9.Degree of protection (cubicle)		IP 54	IP 54
10.Status of neutral		earthed	earthed

Design data

Alternator

1.Standard		IEC 34-1 ISO 8528-3	IEC 34-1 ISO 8528-3
2.Make		NEWAGE	NEWAGE
3.Model		HCI 634 K1	HCI 634 K1
4.Rated output,class H temp. rise	kVA	1130	1438
rating type acc. ISO 8528-3		"BR" 125/40°C	"BR" 125/40°C
5.Degree of protection	IP	23	23
6. Insulation - stator	class	H	H
- rotor	class	H	H
7.Number of wires		12 (stator winding type 11)	12 (stator winding type 11)

Engine

1.Standard		ISO 3046 ISO 8528-2	ISO 3046 ISO 8528-2
2.Make		Deutz	Deutz
3.Model		TBD616V16	TBD616V16
4.Rated net output	kW	876	995
rating type acc. ISO 3046-7		ICXN	ICXN
5.Coolant		water	water
6.Combustion system		direct injection	direct injection
7.Aspiration		turbocharged intercooled	turbocharged intercooled
8.Number of cylinders		V 16	V 16
9.Swept volume	l	35	35
10.Speed governing		electronic EMR II	electronic ®EMR II
11.Capacity of oil sump	l	90	90
12.Capacity of cooling system	l	110	110
13.Electrical system	Vdc	24	24

Power circuit

Circuit-breaker,3ph.				
1.Number of poles			4	4
2.Thermal release	It	A	2500	2500
3.Magnetic release	Im	A	3..10xIn	3..10xIn
Fault current protection				
1.Residual current release..	IDn	A	0.1-25	0.1-25
Outlet sockets			None	None

Notes

1) Reference conditions for engine performance to ISO 3046-1
2) See derating diagram or consult the factory for other conditions
3) At reference conditions unless otherwise stated
4) Rating Definition (ISO 8528-1):
   - LTP Limited Time Power is the maximum electrical power which a generating set is capable of delivering (at variable load), in
   - PRP Prime Power is the maximum power available during a variable power sequence, which may be run for an unlimited
5) Specific mass fuel used: 0.86 kg/l

(a) optional equipment
(b) thermal release is higher at 25°C

Derating Table (in %, 100% is declared power at '*Performance Data*")

derating factor %		*temperature (°C)*										
		0	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**	**50**
height (m)	**0**	100	100	100	100	100	100	100	100	100	98	95
	500	100	100	100	100	100	100	100	100	100	98	95
	1000	100	100	100	100	100	100	100	100	100	98	95
	1500	96	96	96	96	96	96	96	96	96	94	91
	2000	91	91	91	91	91	91	91	91	91	89	86
	2500	87	87	87	87	87	87	87	87	87	85	81

To use the generator on a higher altitude than 2500m, please contact Atlas Copco