Atlas Copco Generators

QAS 14-300

14-300 kVA

50 Hz – dual frequency

Principal data

Performance data (1)

Type			QAS 14	QAS 18	QAS 28	QAS 38
Rated speed		r/min	1500	1500	1500	1500
Rated Power Factor (lagging)			0.80	0.80	0.80	0.80
Rated continuous apparent power		kVA	13	17	25	35
Rated standby power		kVA	14	19	28	38
Rated voltage, line-to-line		V	400	400	400	400
Rated current		A	19	24	36	49
Maximum sound power level (LWA) complying with 2000/14/EC OND		dB(A)	90	91	95	95
Max. sound pressure at 7m and 75% load		dB(A)	62.6	63.3	66.5	65.8
Fuel autonomy at full load		h	26.5	21.5	19	13.5
Capacity of fuel tank		l	85	85	100	100
Fuel consumption	100% load	l/h	3.2	3.9	5.2	7.5
	75% load	l/h	2.5	3.1	4.1	5.8
	50% load	l/h	2.0	2.3	3.0	4.2

Design data

ALTERNATOR						
Insulation - stator		class	H	H	H	H
- rotor		class	H	H	H	H
Number of phases			3	3	3	3
Number of leads			12	12	12	12
ENGINE						
Make			YANMAR	YANMAR	YANMAR	YANMAR
Model			3TNE88-ACG	4TNE88-ACG	4TNE94-ACG	4TNE98-ACG
Rated net output		kW	12.8	16.4	26.1	32.9
Coolant			liquid	liquid	liquid	liquid
Number of cylinders			3	4	4	4
Bore		mm	88	88	94	98
Stroke		mm	96	96	100	110
Swept volume		l	1.642	2.189	2.776	3.319

Unit (2)

Dimensions : Length		mm	1860	1860	2080	2080
Width		mm	811	811	951	951
Height		mm	957	957	1157	1157
Weight (dry)		kg	656	714	826	901
Weight (ready-to-operate)		kg	735	793	942	1017

QAS 48	QAS 78	QAS 108	QAS 138	QAS 150	QAS 200	QAS 250	QAS 300
1500	1500	1500	1500	1500	1500	1500	1500
0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
45	69	100	125	150	200	250	300
50	76	110	138	165	220	275	330
400	400	400	400	400	400	400	400
65	100	145	180	216	289	360	433
95	95	95	98	98	98	98	98
68.1	66	67.6	70.2	70.3	69.6	70.1	71
16	11	13.5	11	16	13	11	9
175	175	310	310	530	530	530	530
10.9	16.0	23.3	28.3	33.6	40.6	51.4	61.7
8.3	12.3	17.6	21.6	25.0	31.4	38.6	45.2
6.2	8.8	12.6	14.5	17.8	22.2	27.1	31.3
H	H	H	H	H	H	H	H
H	H	H	H	H	H	H	H
3	3	3	3	3	3	3	3
12	12	12	12	12	12	12	12
PERKINS	PERKINS	PERKINS	PERKINS	VOLVO	VOLVO	VOLVO	VOLVO
1004-G	1004-TG	1006-TG2	1006-TAG	TAD72OGE	TWD74OGE	TAD74OGE	TAD1032GE
42	65	91.5	110	132	181	220	266
liquid	liquid	liquid	liquid	liquid	liquid	liquid	liquid
4	4	6	6	6	6	6	6
100	100	100	100	108	107	107	120
127	127	127	127	130	135	135	140
3.990	3.990	5.990	5.990	7.150	7.280	7.280	9.600
2562	2562	3112	3112	3471	3471	3955	3955
1031	1031	1131	1131	1431	1431	1431	1431
1307	1307	1507	1507	2128	2128	2128	2128
1395	1485	1986	2096	3005	3296	3443	3851
1562	1662	2266	2424	3383	3740	3860	4240

1) Reference condition

For engine performance to ISO 3046/1-1995
Air inlet temperature from -18°C to 40°C
Max. altitude above sea level: 1000 m
Fuel specific weight: 0.84

Rating definitions

All units are designed to supply continuous electrical power at full and variable load without limitation to the annual number of hours of operation and with a 10% overload capacity during one hour per 12 hours.

2) Configuration D to ISO 8528-1: 1993 with baseframe, integrally mounted control gear, switchgear and auxiliaries, in enclosure.