Generators QAS 200 VOD
AML: Principal Data

		Dual frequency		Note
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	50	50	
2.Altitude capability	m	4000	4000	
3.Relative air humidity maximum	%	85	85	
4.Minimum starting temperature unaided	°C	-15	-15	
5.Minimum starting temperature with heater	°C	-25	-25	(a)
Performance data [2) 3) 4) 5) 6)]				
1.Rated active power (PRP) 3ph	kW	160	176	
2.Rated power factor (lagging) 3phase		0.80	0.80	
3.Rated apparent power (PRP) 3ph	kVA	200	220	
Rated apparent power (PRP) 3ph Lower voltage	kVA	200	-	(a)
4.Rated voltage line to line voltage	V	400	480	
Rated voltage line to line lower voltage	V	230	-	(a)
5.Rated current 3ph.	A	288.7	264.6	
Rated current 3ph. Lower voltage	A	502	-	(a)
6. Performance class (acc.ISO 8528-5:1993)		G2	G2	
Single step load acceptance (0-PRP)	%	50%	55%	
	kW	80	96.8	
7. Frequency droop		isochronous	isochronous	
8. Fuel consumption at 0% load	kg/h	3.75	5.55	
Fuel consumption at 50% load	kg/h	18.29	21.48	
Fuel consumption at 75% load	kg/h	26.71	30.81	
Fuel consumption at full load (100%)	kg/h	34.90	40.91	
9.Specific fuel consumption at full load (100%)	kg/kWh	0.220	0.232	
10.Fuel autonomy at full load with standard tank	h	9	8	
11.Fuel autonomy at full load with optional 24 hrs ta	h	32	27	(a)
12.Max. oil consumption at full load	l/h	0.08	0.09	
13.Maximum sound power level (LWA) measured according to 2000/14/EC OND (measured @ 75% PRP load)	dB(A)	97	-	
14. Capacity of fuel tank	l	413	413	
15. Capacity of optional 24 hrs tank	l	1380	1380	(a)
16. Single step load capability (0-PRP)	%	90	95	
	kW	160	176	

Application data			Note
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.Status of neutral	earthed	earthed	

Design data

Alternator

1.Standard		IEC 34-1 ISO 8528-3	IEC 34-1 ISO 8528-3
2.Make		LEROY SOMER	LEROY SOMER
3.Model		LSA 46.2 M5	LSA 46.2 M5
4.Rated output,class H temp. rise	kVA	200	250
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	12

Engine

1.Standard		ISO 3046 ISO 8528-2	ISO 3046 ISO 8528-2
2.Make		Volvo	Volvo
3.Model		TAD733 GE	TAD733 GE
4.Rated net output	kW	174	190
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		6	6
9.Swept volume	l	7.15	7.15
10.Speed governing		electronic EDC IV	electronic EDC IV
11.Capacity of oil sump	l	35	35
12.Capacity of cooling system	l	39	39
13.Electrical system	Vdc	24	24
13.Emission compliance		EU STAGE II	EU STAGE II

Power circuit

				Note
Circuit-breaker,3ph.				
1. Number of poles		4	4	
2. Thermal release	It	A	400	400	
3. Magnetic release	Im	A	3,5 x In	3,5 x In	
Circuit-breaker, 3ph., lower voltage				(a)
1. Number of poles			3	-	
2. Thermal release	It	A	630	-	
3. Magnetic release	Im	A	2-10 x In	-	
Fault current protection				
1. Residual current release	IDn	A	0,03-30	0,03-30	
2. Insulation resistance		kOhm	10-100	10-100	
Outlet sockets				(a)
			domestic (1x) 2p+E 16A 230V		
			CEE form (1x) 3P+N+PE 16A 400V		
			CEE form (1x) 3P+N+PE 32A 400V		
			CEE form (1x) 3P+N+PE 63A 400V		
			CEE form (1x) 3P+N+PE 125A 400V		

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 the event of a
   PRP Prime Power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per
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 in "*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	95	85	75
	500	100	100	100	100	100	100	100	100	95	85	75
	1000	100	100	100	100	100	100	100	100	95	85	75
	1500	100	100	100	100	100	100	95	95	90	85	75
	2000	90	90	90	90	90	90	90	90	85	80	75
	2500	85	85	85	85	85	85	85	85	80	75	70
	3000	80	80	80	80	80	80	80	80	75	75	70
	3500	75	75	75	75	75	75	75	75	70	65	60
	4000	70	70	70	70	70	70	70	70	65	60	55

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