Generators QAS 150 JD
AML: Principal Data

			Note
Reference conditions [1) 4)]			
1.Rated frequency	Hz	60	
2.Rated speed	rpm	1800	
3.Generator service duty		PRP	
4.Absolute inlet pressure	kPa	100	
5.Relative air humidity	%	30	
6.Air inlet temperature	°C	25	
Limitations [2)]			
1.Maximum ambient temperature	°C	50	
2.Altitude capability	m	4000	
3.Relative air humidity maximum	%	85	
4.Minimum starting temperature unaided	°C	-15	
5.Minimum starting temperature with heater	°C	-25	(a)
Performance data [2) 3) 4) 5) 6)]			
1.Rated active power (PRP) 3ph	kW	112	
Rated active power (PRP) 3ph Lower voltage	kW	105	
Rated active power (PRP) 1ph	kW	87.5	
2.Rated power factor (lagging) 3phase		0.80	
Rated power factor (lagging) 1phase		1.00	
3.Rated apparent power (PRP) 3ph	kVA	140	
Rated apparent power (PRP) 3ph Lower voltage	kVA	131.3	
Rated apparent power (PRP) 1ph	kVA	87	
4.Rated voltage 3ine to line voltage	V	480	
Rated voltage 3ine to line lower voltage	V	208	
Rated voltage 1ph	V	240	
5.Rated current 3ph.	A	168.4	
Rated current 3ph. Lower voltage	A	364.5	
Rated current 1ph.	A	362	
6. Performance class (acc.ISO 8528-5:1993)		G2	
Single step load acceptance (0-PRP)	%	70%	
	kW	78.4	
7. Frequency droop		isochronous	
8. Fuel consumption at 0% load	kg/h	4.97	
Fuel consumption at 50% load	kg/h	16.80	
Fuel consumption at 75% load	kg/h	22.80	
Fuel consumption at full load (100%)	kg/h	27.60	
9.Specific fuel consumption at full load (100%)	kg/kWh	0.240	
10.Fuel autonomy at full load	h	25	
11.Max. oil consumption at full load	g/h	69	
12.Maximum sound pressure level (LPA) measured according to Atlas Copco spec. 9822087700	dB(A)	71	
13. Capacity of fuel tank	l	830	
14. Single step load capability (0-PRP)	%	100%	
	kW	112	

Application data		Note
1.Mode of operation	PRP	
2.Site	land use	
3.Operation	single/parallel	
4.Start-up and control mode	manual/auto	
5.Start-up time	unspecified	
6,Mobility/ Config. acc. to ISO 8528-1:1993	transportable/D	
	mobile/E	(a)
7.Mounting	fully resilient	
8.Climatic exposure	open air	
9.Degree of protection (cubicle)	IP 54	
10.Status of neutral	earthed	

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Design data

Alternator

1.Standard		IEC 34-1 ISO 8528-3
2.Make		NEWAGE
3.Model		UCI 274 D
4.Rated output,class H temp. rise	kVA	146.3
rating type acc. ISO 8528-3		"BR" 125/40°C
5.Degree of protection	IP	21
6. Insulation - stator	class	H
- rotor	class	H
7.Number of wires		12

Engine

1.Standard		ISO 3046 ISO 8528-2
2.Make		John Deere
3.Model		6068HF285
4.Rated net output	kW	125.9
rating type acc. ISO 3046-7		ICXN
5.Coolant		water
6.Combustion system		direct injection
7.Aspiration		turbocharged intercooled
8.Number of cylinders		6
9.Swept volume	l	6.80
10.Speed governing		electronic HPCR
11.Capacity of oil sump	l	27
12.Capacity of cooling system	l	24
13.Electrical system	Vdc	12
13.Emission compliance		USA TIER III

Power circuit

Note

Circuit-breaker,3ph.

1. Number of poles			3
2. Thermal release	It	A	172
3. Magnetic release	Im	A	3xIn

Circuit-breaker, 3ph., lower voltage

1. Number of poles			3
2. Thermal release	It	A	364
3. Magnetic release	Im	A	3,5xIn

Outlet sockets

GFCI duplex (2x)
2p+E
20A 125V

Temp Power (2x)
2p+N+E
50A 125/250V

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
   - PRP Prime Power is the maximum power available during a variable power sequence, which may be run for an unlimited number of
5) Specific mass fuel used: 0.86 kg/l
6) Unless stated otherwise, data are given for 3ph 480 V

(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	100	95	90
	500	100	100	100	100	100	100	100	100	100	95	90
	1000	100	100	100	100	100	100	100	100	100	95	90
	1500	100	100	100	100	100	100	100	100	95	95	85
	2000	95	95	95	95	95	95	95	95	95	90	85
	2500	90	90	90	90	90	90	90	90	90	85	80
	3000	90	90	90	90	90	90	90	90	90	85	80
	3500	85	85	85	85	85	85	85	85	85	75	75
	4000	85	85	85	85	85	85	85	85	85	75	75

For use outside of these conditions, please contact Atlas Copco