

DEUTZ ADG 72 - 152

Technical Specifications
50Hz, COM 0



Quality Standards

98/37 EG, 2004/108/EG, 2000/14/EG, DIN ISO 3046, DIN ISO 8528, DIN EN 61000-6-2,
DIN EN 61000-6-3

Ratings Definitions

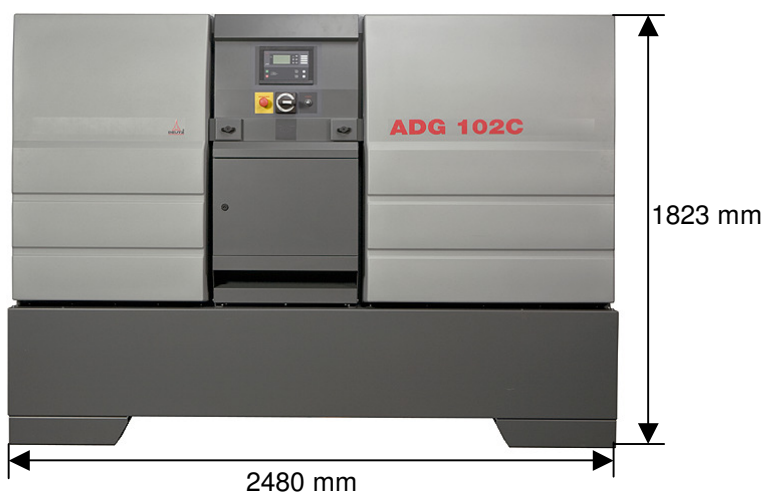
All ratings data based on operation under ISO 8528, ISO 3046, DIN6271 conditions: 25°C ambient temperature and altitude of 100 m above sea level.

Prime Power (PRP, unlimited running time):

Prime power is the maximum power available at a variable load for an unlimited number of hours. a 10% overload capability is available for limited time.

Limited Time Power (LTP, emergency power):

Power available at a variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.



The engine company. 

We reserve the right to change specifications without notice.

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Power Data			ADG 72	ADG 102	ADG 132	ADG 152
Speed	1/ min		1500	1500	1500	1500
Frequency	Hz		50	50	50	50
Variable continuous power PRP	kVA		72	102	132	146
Emergency power LTP	kVA		79,2	112,2	145,2	160,6
Power factor			0,8			
Voltage	V		400/ 231	400/ 231	400/ 231	400/ 231
Current	A		104	147	191	219
Load acceptance	Step 1	Load in %	100	66	54	52
	Step 2	Load in %	-	100	90	86
	Step 3	Load in %	-	-	100	100
Engine Data						
Type			F6L 914	BF6L 914	BF6L 914 C	BF6L 914 C
Power	kW		65	92	119	126
Configuraion			4 Cycle; In-line; 6 Cylinder Diesel			
Aspiration			naturally aspirated	turbocharged	turbocharged/intercooled	turbocharged/intercooled
Displacement	l		6,47	6,47	6,47	6,47
Bore	mm		102	102	102	102
Stroke	mm		132	132	132	132
Rated speed	1/ min		1500	1500	1500	1500
Piston speed	m/s		6,6	6,6	6,6	6,6
Compression ratio			20,6	18,0	18,0	18,0
Governor type			mechanical			
Governing standards			G1	G1	G1	G1
Speed droop (static)	%		5 - 6	5 - 6	5 - 6	5 - 6
Oil capacity (sump)	l		13,5	16	16	16
Lube oil filter type			spin-on full flow filter			
Starting voltage	V		12	12	12	12
Starter	kW		3	3	3	3
Fuel System						
Fuel tank capacity	l		300	300	300	300
Fuel filter			spin-on fuel filter; optional: pre-filter with water separator			
Max suction head of fuel feed pump	m		1	1	1	1
Fuel consumption	100 % load	l/ h	15,8	22,1	28,8	31,8
	75 % load	l/ h	11,7	16,4	21,7	23,7
	50 % load	l/ h	8,4	11,4	15,4	16,4
	25% load	l/ h	4,8	6,9	9,1	9,7
Fuel consumption	100 % load	g/kWh	207	208	210	211
	75 % load	g/kWh	205	205	211	210
	50 % load	g/kWh	220	213	225	218
	25% load	g/kWh	250	260	365	259
Autonomy at full load	h		19	14	10	9

Alternator Data		ADG 72	ADG 102	ADG 132	ADG 152	
Manufacturer		Marelli	Marelli	Marelli	Marelli	
Type		MJB 200 MB 4	MJB 225 MA 4	MJB 225 LA 4	MJB 250 MA 4	
No. of poles		4	4	4	4	
Design		B2 - SAE / IM B34	B2 - SAE / IM B34	B2 - SAE / IM B34	B2 - SAE / IM B34	
Stator		2/3 pitch	2/3 pitch	2/3 pitch	2/3 pitch	
Rotor		Single bearing, flexible disc	Single bearing, flexible disc	Single bearing, flexible disc	Single bearing, flexible disc	
Mechanical protection		IP 23	IP 23	IP 23	IP 23	
Insulation class		H	H	H	H	
Efficiency @ cos phi 0,8 (400V)	100 % load	%	90,5	91,8	92,2	92,9
	75 % load	%	91,4	92,4	92,6	93,2
	50 % load	%	91,7	92,6	92,7	93,1
Efficiency @ cos phi 0,8 (415V)	100 % load	%	90,4	91,7	91,8	92,8
	75 % load	%	91,1	92,3	92,4	93,1
	50 % load	%	91,4	92,5	92,6	93,0
Efficiency @ cos phi 1,0 (400V)	100 % load	%	92,4	93,5	93,8	94,4
	75 % load	%	93,2	93,9	94,1	94,6
	50 % load	%	93,4	94,1	94,2	94,5
Efficiency @ cos phi 1,0 (415V)	100 % load	%	92,3	93,4	93,4	94,3
	75 % load	%	92,9	93,8	94,0	94,5
	50 % load	%	93,1	94,1	94,1	94,5
Exciter type		Brushless, self exciting	Brushless, self exciting	Brushless, self exciting	Brushless, self exciting	
Phase rotation		CW	CW	CW	CW	
Alternator cooling		IC 01	IC 01	IC 01	IC 01	
AC waveform total harmonic distortion			<2%	<2%	<2%	
Telephone harmonic factor (THF)			<2%	<2%	<2%	
Voltage control		+/- 0,5%	+/- 0,5%	+/- 0,5%	+/- 0,5%	
Cooling air volume		0,21 m ³ /s	0,31 m ³ /s	0,31 m ³ /s	0,42 m ³ /s	
Fuel System						
Combustion air	m ³ /h	262	374	453	453	
Max. intake depression (Sswitch setting)	m	mbar	20	20	20	
Air cleaner type		Dry replaceable element	Dry replaceable element	Dry replaceable element	Dry replaceable element	
Exhaust						
Max. exhaust gas temperature	°C	560	570	540	540	
Max. exhaust back pressure	mbar	30	30	30	30	
Exhaust gas flow (at above temperature)	m ³ /h	715	715	1005	1223	

Cooling system		ADG 72	ADG 102	ADG 132	ADG 152
		Air Cooled			
Standard cooling system		Air Cooled			
Fan power consumption	kW	0,7	1,1	1,6	1,6
Cooling air flow	m ³ /h	2610	3655	4475	4475
Air pressure loss	mbar	10	10	10	10
Heat dissipation (convection)	kW	48,1	76,0	88,6	88,6

Battery

Capacity	Ah	100			
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Noise

sound power	L _{WA} dB(A)	95	95	96	96
sound pressure level (1m)	L _{PA in} dB(A)	80	80	81	81
sound pressure level (7m)	L _{PA in} dB(A)	69	70	70	70

Dimensions (Sound Proof)

Length	mm	2480	2480	2480	2480
Width	mm	1110	1110	1110	1110
Height	mm	1823	1823	1823	1823
Weight	kg	1535	1710	1750	1825

Dimensions (open Frame)

Length	mm	2480	2480	2480	2480
Width	mm	1110	1110	1110	1110
Height	mm	1770	1770	1770	1770
Weight	kg	1275	1450	1490	1600