

Current and energy...



AGGRETECH

Diesel Generators

Output: 185/205 kVA

Type JD185

Type JD185 Output: 185/205 kVA

Genset data:

output:	185 kVA (corresp. at 0,8 cos phi: 148 kW)
emergency power output:	205 kVA
nom. voltage:	400 V/ 230 V
nom. current:	268 A
frequency:	50 Hz
activ nom. factor:	0,8 cos phi
speed:	1 500 rpm
weight:	approx. 1 750 kg

Motor:

- crankcase made of gray cast iron
- piston cooling with cooling oil from a spray nozzle
- dropforged steel crankshaft with integrated counterweights
- steel camshaft
- dropforged steel connecting rod shanks
- forced feed lubrication with rotor pump
- cooler for lubricating oil mounted on engine

manufacturer:	John Deere
type:	6068HF258
output (PRP*)/ (LTP*):	166 kW/ 183 kW
no. of cylinders/ configuration:	6/ in line
bore/ stroke:	106 mm/ 127 mm
displacement:	6,8 l
average piston pressure:	19,6 bar
average piston speed:	5,5 - 6,35 m/s
consumption: at 100 %	40,8 l/h / 207 g/kWh
75 %	31,3 l/h / 211 g/kWh
50 %	20,5 l/h / 208 g/kWh
25 %	10,7 l/h / 217 g/kWh
recommended inside diameter for fuel pipes under 10 m:	flow 15 mm return 12 mm
max. suction height:	0,9 m
lubricating oil consumption:	approx. 0,3 % of fuel consumption
cooling method:	water
cooling fluid:	water/ glycol
speed:	1 500 rpm
turbocharged/ charge air cooler:	yes/ yes
injection system:	distributor pump
governor performance:	mechanic/ optional electronic
starter:	12 V/ 920 A
generator:	12 V
cooling air flow:	approx. 11 500 m ³ /h
combustion air volume:	642 m ³ /h
exhaust gas volume:	1 818 m ³ /h

exhaust gas temperature:	590 °C	
dissipated heat		
in cooling liquid:	approx.	70,0 kW
in charge air cooler:	approx.	23,0 kW
in exhaust gas:	approx.	125,5 kW
radiating heat:	approx.	20,2 kW
max. exhaust gas pressure:	30 mbar	
max. counterpressure of outgoing air:	1,5 mbar	
oil capacity:	32 l	
exhaust gas values (fullfill TA-Luft**)	allowed values	John D.-values
(under standard conditions and 50 to 100 % load)		
• nitrogen oxide (No _x):	4 000	/ 2 400
• carbon monoxide (CO):	650	/ 180
• dust (C):	130	/ 80
acoustic pressure (incl. cooling system, distance 1 m):	93,6 dB (A)	

Synchronous-alternator:

- 2/3 chord winding
- with dampening cage, suitable for parallel working
- brushless, self-exciting synchronous alternator

manufacturer:	Aggretech
type:	ACG0200-4-400
output:	200 kVA
speed:	1 500 rpm
frequency:	50 Hz
nom. voltage:	400 V/ 230 V
nom. current:	289 A
activ nom. current:	0,8 cos phi
efficiency factor:	at cos phi 0,8 / 1,0
at 100 % load:	0,920 / 0,945
75 % load:	0,919 / 0,949
50 % load:	0,906 / 0,950
IP:	IP 23
design:	B2-SAE/ IM B34
isolation class:	H
radioshielding class:	EN 55011 Class B, Group 1
nonlinear distortion factor:	< 2 %
no. of poles:	4
voltage control:	electronic, selfregulation
quantity of cooling air:	2 322 m ³ /h
moment of inertia:	1,950 kg/m ²

Type JD185 Output: 185/205 kVA

Scope of supply of special set - Liste 1 (machine set - without cables):

Torsion-free base frame made of laser-cut, welded tilted steel profiles; machine group is mounted on base frame with rubber buffers which allow the machine group to vibrate, however no transfer of vibration to frame; eyelets for crane hooks included in base frame; base frame with pallet feet can be carried with pallet truck or fork lift; engine and generator connected with steel flange coupling;

Accessories optional:

- acoustic enclosures

Additional scope of supply of special set - list 2 (gen set - ready for use):

Electric motor system:

12 V DC system voltage; generator includes automatic charging and battery charger (with voltage-current characteristic) for the battery which is included; electrical motor stop combined with switch off at low oil pressure or overtemperature;

Switchpanel:

Automatic start mains failure type "Aggretech RGN06-3" without synchronisation, scope of supply: incl. generator contactor/ -circuit breaker, incl. mains contactor/ -circuit breaker. Voltage, frequency, operating hours display and 3x current per phase inside control unit.

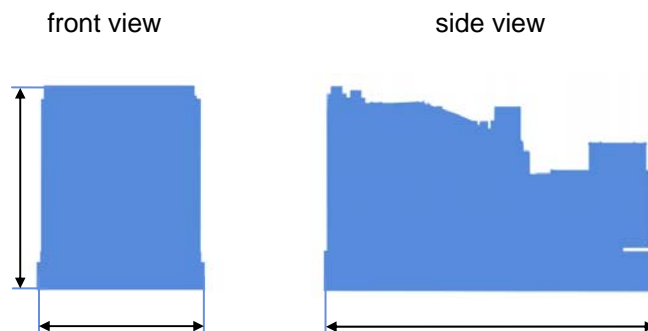
Accessories included:

- oil and cooling water (to - 25 °C);
- starter battery, completely mounted (12 V, 120 Ah)
- battery charger voltage-current characteristic
- fuel tank on base frame (for approx. 8 hours operating time at full load, without fuel, incl. mech. fuel display
- compensator (delivery unfixed)
- exhaust gas sound absorber (delivery unfixed) absorption about 25 dB(A)

Accessories optional:

- acoustic enclosures

Overall size and weight:



total weight: approx. 1 750 kg
engine weight: approx. 765 kg,
alternator weight: approx. 655 kg,
surface of cooling system: approx. W 780 x H 795 mm;

Quality standards: (standard type)

VDE 0530, DIN 6280, ISO 8528, IEC 34, BS 4999, BS 5000, BS 5514;

Performance definition:

According to DIN 6280, ISO 8528, ISO 3046, BS 5514. All numbers refer to the standard type and standard conditions (air pressure 1 000 mbar, ambient temperature 40 °C, installation height 0 - 300 m).

Explanations:

*PRP:

- Permanent current output variable 10 % overload for control purposes for maximum 1 hour in 12 hours;

*LTP:

- Emergency current output, no overload, maximum 300 hours/ year;

**TA-Luft are technical regulations to prevent pollution;

The engine fulfills the German TA-Luft-requirements. Basis for the specified value is the old Technical Instruction on Air Quality Regulation (TA-Luft 1986). Specified John Deere values are sample values of John Deere test bench values.

Maximum instantaneous load at switching on about 60 % of genset's nominal output;

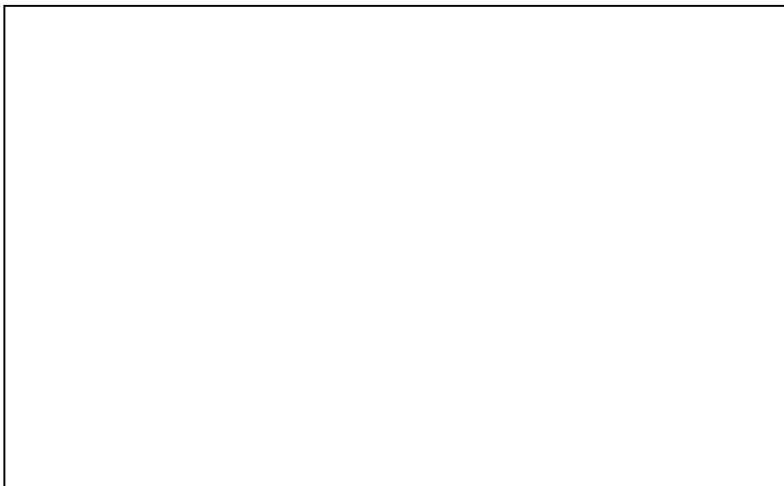
Additional technical informations: (not included in delivery)

- Diameter of the fuel pipe between tank and gen-set (designed for a maximum of 10 m) in mm
Supply / return 15 (DN12) / 12 (DN10)
- Diameter of the exhaust pipe: DN 125 / Ø A 139,7 mm (designed for a maximum of 12m + 3 x 90°-elbows)
- Dimensions of the cooling system in m²: 0,620
Available space for the distribution of the ventilation channel (as a minimum)

Type JD185 Output: 185/205 kVA



Your licensed dealer:



Weight details refer to dry weight excluding any accessories.
Part of the pictures include special accessories.
We reserve the right to make changes due to technical advancement and errors.

AS 9/ JD185 - 06.2008 - 1 - e - Printed in Germany



AGGRETECH AG
Division
Generator Set Manufacturing
works 2 - Rotthofer Str. 8
94099 Ruhstorf
Tel.: 0049 (0)8531/97 82 -0
Fax: 0049 (0)8531/97 82 -1510
e-mail: stromaggregate@aggretech.de
Internet: www.aggretech.de