

Current and energy...



Diesel Generators

Output: 60/66 kVA

Type JD60

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## Genset data:

<b>output:</b>	<b>60 kVA (corresp. at 0,8 cos phi: 48 kW)</b>
<b>emergency power output:</b>	<b>66 kVA</b>
<b>nom. voltage:</b>	<b>400 V/ 230 V</b>
<b>nom. current:</b>	<b>86 A</b>
<b>frequency:</b>	<b>50 Hz</b>
<b>activ nom. factor:</b>	<b>0,8 cos phi</b>
<b>speed:</b>	<b>1 500 rpm</b>
<b>weight:</b>	<b>approx. 950 kg</b>

## 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:	4039TF008
output (PRP*)/ (LTP*):	57 kW/ 63 kW
no. of cylinders/ configuration:	4/ in line
bore/ stroke:	106 mm/ 110 mm
displacement:	3,9 l
average piston pressure:	11,58 bar
average piston speed:	5,5 - 6,35 m/s
consumption: at 100 %	14,9 l/h / 220 g/kWh
75 %	10,4 l/h / 204 g/kWh
50 %	7,1 l/h / 209 g/kWh
25 %	4,3 l/h / 254 g/kWh
recommended inside diameter for fuel pipes under 10 m:	flow 10 mm return 8 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/ no
injection system:	distributor pump
governor performance:	mechanic/ optional electronic
starter:	12 V/ 780 A
generator:	12 V
cooling air flow:	approx. 5 360 m <sup>3</sup> /h
combustion air volume:	222 m <sup>3</sup> /h
exhaust gas volume:	666 m <sup>3</sup> /h

exhaust gas temperature:	566 °C
<b>dissipated heat</b>	
in cooling liquid:	approx. 35,0 kW
in charge air cooler:	-
in exhaust gas:	approx. 51,9 kW
radiating heat:	approx. 7,6 kW
max. exhaust gas pressure:	30 mbar
max. counterpressure of outgoing air:	1,5 mbar
oil capacity:	12 l

<b>exhaust gas values</b> (fullfill TA-Luft**) (under standard conditions and 50 to 100 % load)	<b>allowed values</b>	<b>John D.-values</b>
• nitrogen oxide (No <sub>x</sub> ):	4 000	/ -
• carbon monoxide (CO):	650	/ -
• dust (C):	130	/ -
acoustic pressure (incl. cooling system, distance 1 m):	90,1 dB (A)	

## Synchronous-alternator:

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

manufacturer:	Aggretech
type:	ACG0065-4-400
output:	72 kVA
speed:	1 500 rpm
frequency:	50 Hz
nom. voltage:	400 V/ 230 V
nom. current:	84 A
activ nom. current:	0,8 cos phi
<b>efficiency factor:</b>	<b>at cos phi</b> <b>0,8 / 1,0</b>
at 100 % load:	0,905 / 0,924
75 % load:	0,914 / 0,932
50 % load:	0,917 / 0,934
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:	756 m <sup>3</sup> /h
moment of inertia:	0,426 kgm <sup>2</sup>

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## 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 alternator 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.

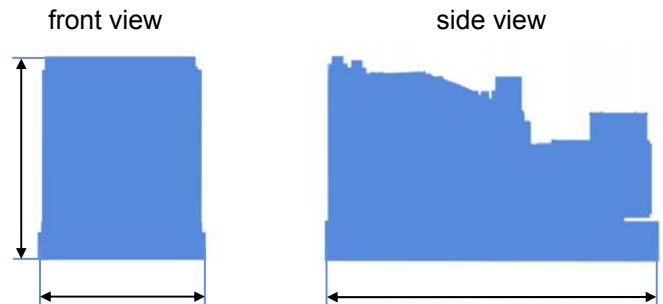
### Accessories included:

- oil and cooling water (to - 25 °C);
- starter battery, completely mounted (12 V, 88 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. 950 kg,  
engine weight: approx. 488 kg,  
alternator weight: approx. 300 kg,  
surface of cooling system: approx. W 558 x H 518 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 10 (DN8) / 8 (DN6)
- Diameter of the exhaust pipe: DN 80 / Ø A 88,9 mm (designed for a maximum of 12m + 3 x 90°-elbows)
- Dimensions of the cooling system in m<sup>2</sup>: 0,289  
Available space for the distribution of the ventilation channel (as a minimum)

