



R275C3E (CE)11

Engine ref. 6090HFS85
Kohler Alternator description #desc_altt#
Canopy M228 EVENT
Performance class G3

GENERAL CHARACTERISTICS

Standard Control Panel

%LongE_2%

%LargE_2%

%HautE 2%

%PdNetE 2%

%CapaE_2%

Length (mm)

Width (mm)

Height (mm)

Dry weight (kg)

Tank capacity (L)

Autonomy @ 75% of load (h)

Autonomy @ 50% of load (h)

%Auton75E_2%

%Auton50E 2%

Frequency (Hz) 50 Hz Voltage (V) 400/230

KERYS

#LongE_2#

#LargE_2#

#HautE 2#

#PdNetE 2#

#CapaE_2#

5360

1700

2600

1300,00

#Auton75E_2#

#Auton50E 2#

Full version

BASE ADDITIONNAL EQUIPMENTS

- Super silent enclosure dedicated to rental
- Connection terminal box rental type
- Four-pole circuit breaker
- Integrated ladder
- Forks lift pocket
- low fuel level alarm
- Swing valve
- Access door to the radiator
- Retention bund

ADDITIONAL EQUIPMENT - FULL

- #GEN PLUS AV_1_Valeur#
- #GEN_PLUS_AV_2_Valeur#
- #GEN PLUS AV 3 Valeur#
- #GEN_PLUS_AV_4_Valeur#
- #GEN_PLUS_AV_5_Valeur#
- #GEN_PLUS_AV_6_Valeur#
- #GEN_PLUS_AV_7_Valeur#
- #GEN_PLUS_AV_8_Valeur#
- #GEN_PLUS_AV_9_Valeur#
- #GEN_PLUS_AV_10_Valeur#
- #GEN_PLUS_AV_11_Valeur#
 #GEN_PLUS_AV_12_Valeur#
- #GEN PLUS AV 13 Valeur#
- #GEN PLUS AV 14 Valeur#
- #GEN_PLUS_AV_15_Valeur#

SOUND LEVELS

Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)

Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)

Acoustic pressure level @15m in dB(A) 50Hz (75% PRP)

POWER DEFINITION

PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. ESP: The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Intlet Temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30 % relative humidity. For particular conditions in your installation, refer to the derating table.

ASSOCIATED UNCERTAINTY

For the generating sets used indoor, where the acoustic pressure levels depends on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions .

You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.



R275C3E (CE) ENGINE CHARACTERISTICS

GENERAL ENGINE DATAS	
Engine brand	JOHN DEERE
Engine ref.	6090HFS85
Air inlet system	Turbo
Cylinder configuration	L
Number of cylinders	6
Displacement (I)	8,98
Charge Air coolant	Air/Air
Bore (mm) x Stroke (mm)	118,40 x 136,0
Compression ratio	16:1
Speed 50Hz (RPM)	1500
Pistons speed (m/s)	6,80
Maximum stand-by power at rated RPM (kW)	253,0
Frequency regulation, steady state (%)	+/- 0.25%
BMEP @ PRP (bar)	20,5
Governor type	Electronic

II	1.317.00-0	L ~ .		- 17/
CO	 17,17,47,11	P 10	APPL THE	- L'1

Radiator & Engine capacity (I)

Fan power 50Hz (kW)	8,00
Fan air flow w/o restriction (m3/s)	6,70
Available restriction on air flow (mm H2O)	
Type of coolant	Glycol-Ethylene

EMISSIONS	
Emission PM 50Hz (g/kW.h)	0,1100
Emission CO 50Hz (g/kW.h)	0,910
Emission THC+NOx (g/kWh)	3,890
Emission HC 50Hz (g/kW.h)	0,050

EXHAUST	
Exhaust gas temperature @ ESP (°C) Exhaust gas flow @ ESP (I/s) Max. exhaust back pressure (mm H2O)	552 798,0 765
FUEL	
Fuel consumption @ ESP Max Power (I/h) Fuel consumption @ PRP Max Power (I/h) Fuel consumption @ 75% of PRP Power (I/h) Fuel consumption @ 50% of PRP Power (I/h) Maximum fuel pump flow (I/h)	57,2 57,3 43,2 31,1
OIL	
Oil system capacity including filters (I) Min. oil pressure (bar) Max. oil pressure (bar) Oil consumption 100% ESP 50Hz (I/h) Oil sump capacity (I)	31,00 1,9 2,4 0,143
HEAT BALANCE	
Heat rejection to exhaust (kW) Radiated heat to ambiant (kW)	179 25,0

81

Heat rejection to coolant HT (kW)

AIR INTAKE



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ALTERNATOR CHARACTERISTICS

Kohler Alternator description	KH01512T	Continuous Nominal Rating 40°C (kVA)	250,0
Number of Phase	Three phase	Standby Rating 27°C (kVA)	275,0
Power factor (Cos Phi)	0,8	Efficiencies 100% of load (%)	92,3
Altitude (m)	0 à 1000	Air flow (m3/s)	0,430
Overspeed (rpm)	2250	Short circuit ratio (Kcc)	0,413
Number of pole	4	Direct axis synchro reactance unsaturated (Xd) (%)	327,0
Capacity for maintaining short circuit at	Yes	Quadra axis synchro reactance unsaturated (Xq) (%)	166,0
300% of rated current for 10 s Insulation class	Н	Open circuit time constant (T'do) (ms)	2105,00
		Direct axis transcient reactance saturated (X'd) (%)	15,5
T° class (H/125K), continuous 40°C	H / 125°K H / 163°K	Short circuit transcient time constant (T'd) (ms)	100,000
T° class (H/163K), standby 27°C		Direct axis subtranscient reactance saturated (X"d)	9,3
AVR Regulation Yes Total Harmonic Distortion in no-load DHT (%) Total Harmonic Distortion, on linear load DHT (%) Wave form : NEMA=TIF <50 Wave form : CEI=FHT <2		(%)	
	<2.5	Subtranscient time constant (T"d) (ms) Quadra axis subtranscient reactance saturated (X"q)	10,000
	<2.5	(%)	11,50
	Subtranscient time constant (T"q) (ms)	10,0	
	Zero sequence reactance unsaturated (Xo) (%)	0,30	
	Single Bearing	Negative sequence reactance saturated (X2) (%)	10,42
Coupling Voltage regulation at established rating (+/- %) Recovery time (Delta U = 20% 500 transcient) (ms)		Armature time constant (Ta) (ms)	15,000
	0,50	No load excitation current (io) (A)	1,04
		Full load excitation current (ic) (A)	4,00
		Full load excitation voltage (uc) (V)	53,2
		Engine start (Delta U = 20% perm. or 30% trans.) (kVA)	498,46
Technology	Brushless	Transcient dip (4/4 load) - PF : 0,8 AR (%)	14,00
		No load losses (W)	3698,05
		Heat rejected to ambient air (kW)	16,50
		Unbalanced load acceptance ratio (%)	8



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CONTROL PANEL

KERYS, synchronisation and adaptability



The KERYS Rental control unit has been designed to meet the specific requirements of professionals in terms of operating and monitoring mobile generating sets. It therefore offers a wide range of functions. This control unit is fitted as standard to all generating sets designed to be used for synchronisation and is offered as an option across the rest of our range. This ultra-comprehensive control unit enables highly precise management of the genset parameters. Its multifunction switch can be used to easily select the type of synchronisation adapted to the user's needs (solo, synchronisation between gensets and a single genset coupled to the grid).

The 3 coupling modes available are as follows:

Genset in SOLO use (A612) Genset coupled in Power plant configuration (A632) Genset coupled to the grid (1)

(1) In this position, it is possible to select the coupling mode on the screen:

Generating set with permanent grid coupling without normal/emergency switching - grid coupling + resale (A641) Generating set with permanent grid coupling without normal/emergency switching + 0 Kw power step on grid (A642)

Generating set with temporary grid coupling and normal/emergency switching (A651) Generating set with permanent grid coupling and normal/emergency switching (A661).