



R330RC

Engine ref.	6090HFS86
Kohler Alternator description	KH01641T
Canopy	M3227
Performance class	G3

GENERAL CHARACTERISTICS	
Frequency (Hz)	50 Hz
Voltage (V)	400/230
Standard Control Panel	APM303
Optional control panel	TELYS

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	otanaby rinpo
400/230	264	330	240	300	476

DESCRIPTIVE

- Four-pole circuit breaker
- Connection terminal box rental type
- Containment fuel tank and large autonomy
- Forks and frame protection pads
- Battery isolating switch
- Heavy duty air filter with interchangeable cartridge

Access door to the radiator

Electronic governor with speed adjustement

SMALL AUTONOMY DIMENSIONS	
Length (mm)	4332
Width (mm)	1361
Height (mm)	2431
Dry weight (kg)	4074,00
Tank capacity (L)	1083,00

SOUND LEVELS

Acoustic pressure level @1m in dB(A) 50Hz78 (0,70)(75% PRP) (Associated uncertainty)78 (0,70)Acoustic pressure level @7m in dB(A) 50Hz67(75% PRP) (Associated uncertainty)67

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 UNCERTAINT

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.

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Emission HC 50Hz (g/kW.h)

0,050

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ENGINE CHARACTERISTICS

GENERAL ENGINE DATAS		EXHAUST	
Engine brand	JOHN DEERE	Exhaust gas temperature @ ESP (°C)	714
Engine ref.	6090HFS86	Exhaust gas flow @ ESP (I/s)	962,0
Air inlet system	Turbo	Max. exhaust back pressure (mm H2O)	765
Cylinder configuration	L		
Number of cylinders	6	FUEL	
Displacement (I)	9,00	Fuel consumption @ ESP Max Power (I/h)	70,0
Charge Air coolant	Air/Air	Fuel consumption @ PRP Max Power (I/h)	70,0
Bore (mm) x Stroke (mm)	118,40 x 136,0	Fuel consumption @ 75% of PRP Power (I/h)	50,0
Compression ratio	16 : 1	Fuel consumption @ 50% of PRP Power (I/h)	40,0
Speed 50Hz (RPM)	1500	Maximum fuel pump flow (I/h)	,.
Pistons speed (m/s)	6,80		
Maximum stand-by power at rated RPM (kW)	304,0	OIL	
Frequency regulation, steady state (%) +/- 0.25%	Oil system capacity including filters (I)	40,00
BMEP @ PRP (bar)	20,0	Min. oil pressure (bar)	1,1
Governor type	Electronic	Max. oil pressure (bar)	
		Oil consumption 100% ESP 50Hz (I/h)	0,174
COOLING SYSTEM		Oil sump capacity (I)	
Radiator & Engine capacity (I)	44,50		
		HEAT BALANCE	
		Heat rejection to exhaust (kW)	235
Fan power 50Hz (kW)	9,00	Radiated heat to ambiant (kW)	30,0
Fan air flow w/o restriction (m3/s) Available restriction on air flow (mm H2O)		Heat rejection to coolant HT (kW)	114
Type of coolant	Glycol-Ethylene	AIR INTAKE	
		Max. intake restriction (mm H2O) Combustion air flow (I/s)	637 367,00
EMISSIONS			
Emission PM 50Hz (g/kW.h)	0,1100		
Emission CO 50Hz (g/kW.h)	0,910		
Emission THC+NOx (g/kWh)	3,890		
	0.050		

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ALTERNATOR CHARACTERISTICS

Kohler Alternator description	KH01641T
Number of Phase	Three phase
Power factor (Cos Phi)	0,8
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 300% of rated current for 10 s	Yes
Insulation class	Н
T° class (H/125K), continuous 40°C	H / 125°K
T° class (H/163K), standby 27°C	H / 163°K
AVR Regulation	Yes
Total Harmonic Distortion in no-load DHT (%)	<2.5
Total Harmonic Distortion, on linear load DHT (%)	<2.5
Wave form : NEMA=TIF	<50
Wave form : CEI=FHT	<2
Number of bearing	Single Bearing
Coupling	Direct
Voltage regulation at established rating	0,50
(+/- %) Recovery time (Delta U = 20%	500
transcient) (ms)	
Indication of protection	IP 23
Technology	Brushless

Continuous Nominal Rating 40°C (kVA)	300,0
Standby Rating 27°C (kVA)	330,0
Efficiencies 100% of load (%)	93,1
Air flow (m3/s)	0,480
Short circuit ratio (Kcc)	0,444
Direct axis synchro reactance unsaturated (Xd) (%)	344,0
Quadra axis synchro reactance unsaturated (Xq) (%)	175,0
Open circuit time constant (T'do) (ms)	2543,00
Direct axis transcient reactance saturated (X'd) (%)	13,5
Short circuit transcient time constant (T'd) (ms)	100,000
Direct axis subtranscient reactance saturated (X"d) (%)	10,8
Subtranscient time constant (T"d) (ms)	10,000
Quadra axis subtranscient reactance saturated (X"q) (%)	14,30
Subtranscient time constant (T"q) (ms)	10,0
Zero sequence reactance unsaturated (Xo) (%)	0,50
Negative sequence reactance saturated (X2) (%)	12,62
Armature time constant (Ta) (ms)	15,000
No load excitation current (io) (A)	0,94
Full load excitation current (ic) (A)	3,41
Full load excitation voltage (uc) (V)	49,7
Engine start (Delta U = 20% perm. or 30% trans.) (kVA)	835,38
Transcient dip (4/4 load) - PF : 0,8 AR (%)	11,00
No load losses (W)	4449,02
Heat rejected to ambient air (kW)	17,61
Unbalanced load acceptance ratio (%)	8



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CONTROL PANEL

APM303, comprehensive and simple



The APM303 is a versatile unit which can be operated in manual or automatic mode. It offers the following features: Measurements:

phase-to-neutral and phase-to-phase voltages, fuel level (In option : active power currents, effective power, power factors, Kw/h energy meter, oil pressure and coolant temperature levels)

Supervision:

Modbus RTU communication on RS485 Reports:

(In option : 2 configurable reports)

Safety features:

Overspeed, oil pressure,coolant temperatures, minimum and maximum voltage, minimum and maximum frequency (Maximum active power P<66kVA)

Traceability:

Stack of 12 stored events

For further information, please refer to the data sheet for the APM303.

TELYS, ergonomic and user-friendly



The highly versatile TELYS control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

The TELYS offers the following functions:

Electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

Ergonomics: wheel for navigating around the various menus.

Communication: remote control and operation software, USB connections, PC connection.

Automatic control: automatic start.

For more information on the product and its options, please refer to the sales documentation.