

KR330RC

Engine type	6090HFS86
Alternator type	AT02260T
Canopy type	M3227
Performance class	G3

GENERAL CHARACTERISTICS	
Frequency (Hz)	50
Voltage (V)	400/230
Max power ESP (kVA)	330
Max power ESP (kWe)	264
Max power PRP (kVA)	300
Max power PRP (kWe)	240
Intensity (A)	476
Standard control panel	APM303
Optional control panel	DEC4000

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 adjustment

SMALL AUTONOMY DIMENSIONS

Length (mm).	4332
Width (mm).	1361
Height (mm).	2431
Dry weight (kg).	4210
Tank capacity (L).	1083
Autonomy @ 75% of load (h)	N/A
Autonomy @ 50% of load (h)	N/A

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.

TERM 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.

SOUND LEVELS

Acoustic pressure level @1m in dB(A) 78 (0.7) Acoustic pressure level @7m in dB(A) 67 Sound power level guaranteed (Lwa) 97

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ENGINE SPECIFICATIONS

GENERAL ENGINE DATA	
Engine model	JOHN DEERE
Engine type	6090HFS86
Air inlet	Turbo
Cylinders arrangement	L
Number of cylinders	6
Displacement (L)	8.98
Charge Air coolant	Air/Water DC
Bore (mm) x Stroke (mm)	118.4 x 136
Compression ratio	16 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.8
Maximum stand-by power at rated	304
RPM (kW)	304
Frequency regulation, steady state (%)	+/- 0.5%
BMEP (bar)	24.63
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (L)	N/A
Max water temperature (°C)	110
Outlet water temperature (°C)	N/A
Fan power (kW)	9
Fan air flow w/o restriction (m3/s)	N/A
Available restriction on air flow (mm H2O)	N/A
Type of coolant	Glycol-Ethylene
Thermostat modulating range HT (°C)	82-94

EMISSIONS		
Emission PM (g/kWh)	0.11	
Emission CO (g/kWh)	0.91	
Emission HC+NOx (g/kWh)	3.89	
Emission HC (g/kWh)	0.05	

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C)	714
Exhaust gas flow @ ESP 50Hz (L/s)	962
Max. exhaust back pressure (mm H2O)	765
FUEL	
Consumption @ 110% load (L/h)	69.5
Consumption @ 100% load (L/h)	68.6
Consumption @ 75% load (L/h)	50.7
Consumption @ 50% load (L/h)	36.6
Maximum fuel pump flow (L/h)	N/A
OIL	
Oil capacity (L)	40
Min. oil pressure (bar)	1.05
Max. oil pressure (bar)	N/A
Oil consumption 100% load (L/h)	0.033
Oil sump capacity (L)	N/A
LIEAT BALANCE	
HEAT BALANCE	005
Heat rejection to exhaust (kW)	235
Radiated heat to ambient (kW)	30
Heat rejection to coolant (kW)	113.9
AIR INTAKE	
	637
Max. intake restriction (mm H2O)	007

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ALTERNATOR SPECIFICATIONS

GENERAL DATA	_	OTHER DATA	
Alternator type	AT02260T	Continuous Nominal Rating 40°C (kVA)	318
Number of Phase	Three phase	Standby Rating 27°C (kVA)	350
Power factor (Cos Phi)	0.8	Efficiencies 100% of load (%)	93.7
Altitude (m)	0 to 1000	Air flow (m3/s)	0.43
Overspeed (rpm)	2250	Short circuit ratio (Kcc)	0.495
Number of pole	4	Direct axis synchro reactance unsaturated (Xd) (%)	276
Capacity for maintaining short circuit at 3 In for 10 s	Yes	Quadrature-axis synchro reactance unsaturated (Xq) (%)	166
Insulation class	Н	Open circuit time constant (T'do) (ms)	2253
T° class (H/125°), continuous 40°C	H / 125°K	Direct axis transient reactance saturated (X'd) (%)	12.2
T° class, standby 27°C	H / 163°K	Short circuit transient time constant (T'd) (ms)	100
AVR Regulation	Yes	Direct axis subtransient reactance saturated (X"d) (%)	7.3
Total Harmonic Distortion in no-load DHT (%)	<2.5	Subtransient time constant (T"d) (ms)	10
Total Harmonic Distortion, on load DHT (%)	<2.5	Quadrature-axis subtransient reactance saturated (X"q) (%)	9 10
Wave form : NEMA=TIF	<50	Subtransient time constant (T"q) (ms)	
Wave form : CEI=FHT	<2	Zero sequence reactance unsaturated (Xo) (%)	0.6
Number of bearing	1	Negative sequence reactance saturated (X2) (%)	8.2
Coupling	Direct	Armature time constant (Ta) (ms)	15
Voltage regulation at established rating	0.5	No load excitation current (io) (A) Full load excitation current (ic) (A)	1.05 3.46
(+/- %) Recovery time (Delta U = 20%	500	Full load excitation current (ic) (A) Full load excitation voltage (uc) (V)	51.7
transient) (ms)	000	Engine start (Delta U = 20% perm. or 50% trans.)	
Protection class	IP 23	(kVA)	769.41
Technology	Without collar or brush	Transient dip (4/4 load) - PF : 0.8 AR (%) No load losses (W)	11 4816.3
		Heat rejection (W) Unbalanced load acceptance ratio (%)	17024.75 100

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CONTROL PANEL

APM303, comprehensive and simple

DEC4000, ergonomic and user-friendly



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.



The highly versatile DEC4000 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 DEC4000 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.

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