



DESCRIPTIVE

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for core temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts (CE option)
- 9 dB(A) silencer supplied separately
- Charger DC starting battery with electrolyte
- 12 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation

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 Inlet 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.



J200K

Engine ref.	6068HF120-183
Alternator ref.	AT01132T
Performance class	G3

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Voltage (V)	400/230
Standard Control Panel	APM303
Optional control panel	TELYS
Optional Control Panel	Basic terminal block

POWER

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
200/115	160	200	145	182	577
240 TRI	160	200	145	182	481
230 TRI	160	200	145	182	502
220 TRI	160	200	145	182	525
220/127	144	180	131	164	472
415/240	160	200	145	182	278
400/230	160	200	145	182	289
380/220	160	200	145	182	304

DIMENSIONS COMPACT VERSION

Length (mm)	2370
Width (mm)	1114
Height (mm)	1480
Dry weight (kg)	1730
Tank capacity (L)	340

DIMENSIONS SOUNDPROOFED VERSION

Commercial reference of the enclosure	M226
Length (mm)	3508
Width (mm)	1200
Height (mm)	1830
Dry weight (kg)	2320
Tank capacity (L)	340
Acoustic pressure level @1m in dB(A)	76
Sound power level guaranteed (Lwa)	95
Acoustic pressure level @7m in dB(A)	65

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ENGINE CHARACTERISTICS

GENERAL ENGINE DATA

Engine brand	JOHN DEERE
Engine ref.	6068HF120-183
Air inlet system	Turbo
Cylinders configuration	L
Number of cylinders	6
Displacement (L)	6,72
Charge Air coolant	Air/Air DC
Bore (mm) x Stroke (mm)	106,00 x 127,00
Compression ratio	17 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6,35
Maximum stand-by power at rated RPM (kW)	183,00
Frequency regulation, steady state (%) +/- 2.5%	
BMEP (bar)	20,22
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)	25,80
Max water temperature (°C)	105,00
Outlet water temperature (°C)	93
Fan power (kW)	3,40
Fan air flow w/o restriction (m3/s)	4,60
Available restriction on air flow (mm H2O)	20,00
Type of coolant	Glycol-Ethylene
Thermostat modulating range HT (°C)	82-94

EMISSIONS

Emission PM (mg/Nm3) 5% O2	80
Emission CO (mg/Nm3) 5% O2	180
Emission HC+NOx (g/kWh)	
Emission HC (mg/Nm3) 5% O2	15

EXHAUST

Exhaust gas temperature @ ESP 50Hz (°C)	565
Exhaust gas flow @ ESP 50 Hz (L/s)	457,00
Max. exhaust back pressure (mm H2O)	750

FUEL

Consumption @ 110% load (L/h)	45,20
Consumption @ 100% load (L/h)	40,80
Consumption @ 75% load (L/h)	31,30
Consumption @ 50% load (L/h)	20,50
Maximum fuel pump flow (L/h)	108,00

OIL

Oil capacity (L)	31,50
Min. oil pressure (bar)	1,00
Max. oil pressure (bar)	5,00
Oil consumption 100% load (L/h)	0,052
Oil sump capacity (L)	32,0

HEAT BALANCE

Heat rejection to exhaust (kW)	138
Radiated heat to ambient (kW)	23,00
Heat rejection to coolant (kW)	76

AIR INTAKE

Max. intake restriction (mm H2O)	625
Intake air flow (L/s)	205,00



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ALTERNATOR CHARACTERISTICS

GENERAL DATA

Alternator ref.	AT01132T
Number of Phase	Three phase
Power factor (Cos Phi)	0,8
Altitude (m)	0 to 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 In for 10 s	No
Insulation class	H
T° class (H/125°), continuous 40°C	H / 125°K
T° class, standby 27°C	H / 163°K
%regulation_avr%	#regulation_avr#
Total Harmonic Distortion in no-load DHT (%)	<2.5
Total Harmonic Distortion, on load DHT (%)	<2.5
Wave form : NEMA=TIF	<50
Wave form : CEI=FHT	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (+/- %)	0,50
Recovery time (Delta U = 20% transient) (ms)	500
Indication of protection	IP 23
Technology	Without collar or brush
AVR Regulation	Yes

OTHER DATA

Continuous Nominal Rating 40°C (kVA)	180,0
Standby Rating 27°C (kVA)	203,0
Efficiencies 100% of load (%)	91,7
Air flow (m3/s)	0,430
Short circuit ratio (Kcc)	0,440
Direct axis synchro reactance unsaturated (Xd) (%)	312,0
Quadra axis synchro reactance unsaturated (Xq) (%)	187,0
Open circuit time constant (T'do) (ms)	1971,00
Direct axis transient reactance saturated (X'd) (%)	15,8
Short circuit transient time constant (T'd) (ms)	100,000
Direct axis subtransient reactance saturated (X''d) (%)	9,5
Subtransient time constant (T''d) (ms)	10,000
Quadra axis subtransient reactance saturated (X''q) (%)	11,80
Subtransient time constant (T''q) (ms)	10,0
Zero sequence reactance unsaturated (Xo) (%)	0,500
Negative sequence reactance saturated (X2) (%)	10,60
Armature time constant (Ta) (ms)	15,000
No load excitation current (io) (A)	1,00
Full load excitation current (ic) (A)	3,90
Full load excitation voltage (uc) (V)	33,0
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	340,00
Transient dip (4/4 load) - PF : 0,8 AR (%)	16,20
No load losses (W)	2810,00
Heat rejection (W)	12900,00
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

Containment DW

Commercial reference of the enclosure	M226 DW
Length (mm)	3560
Width (mm)	1200
Height (mm)	2182
Dry weight (kg)	2713
Tank capacity (L)	868
Acoustic pressure level @1m in dB(A)	76
Sound power level guaranteed (Lwa)	95
Acoustic pressure level @7m in dB(A)	65

Containment DW 48H

Commercial reference of the enclosure	M226 DW48
Length (mm)	3560
Width (mm)	1200
Height (mm)	2364
Dry weight (kg)	2978
Tank capacity (L)	1630
Acoustic pressure level @1m in dB(A)	76
Sound power level guaranteed (Lwa)	95
Acoustic pressure level @7m in dB(A)	65

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.

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

Basic terminal block



The control unit can be used as a basic terminal block for connecting a control box.

Offers the following functions:

emergency stop button, customer connection terminal block, CE.