





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 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.

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 Amna
	kWe	kVA	kWe	kVA	Standby Amps
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 3508 Length (mm) 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



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 ambiant (kW)	23,00
Haet rejection to coolant (kW)	76
AIR INTAKE	
Max. intake restriction (mm H2O)	625
Intake air flow (L/s)	205,00



J200K

ALTERNATOR CHARACTERISTICS

GENERAL DATA		OTHER DATA	
Alternator ref.	AT01132T	Continuous Nominal Rating 40°C (kVA)	180,0
Number of Phase	Three phase	Standby Rating 27°C (kVA)	203,0
Power factor (Cos Phi)	0,8	Efficiencies 100% of load (%)	91,7
Altitude (m)	0 to 1000	Air flow (m3/s)	0,430
Overspeed (rpm)	2250	Short circuit ratio (Kcc)	0,440
Number of pole	4	Direct axis synchro reactance unsaturated (Xd) (%)	312,0
Capacity for maintaining short circuit at	No	Quadra axis synchro reactance unsaturated (Xq) (%)	187,0
3 In for 10 s Insulation class	Н	Open circuit time constant (T'do) (ms)	1971,00
T° class (H/125°), continuous 40°C	H / 125°K	Direct axis transcient reactance saturated (X'd) (%)	15,8
T° class, standby 27°C	H / 163°K	Short circuit transcient time constant (T'd) (ms)	100,000
%regulation_avr%	#regulation_avr#	Direct axis subtranscient reactance saturated (X"d)	9,5
Total Harmonic Distortion in no-load		(%) Subtranscient time constant (T"d) (ms)	10,000
DHT (%)	<2.5	Quadra axis subtranscient reactance saturated (X"q)	
Total Harmonic Distortion, on load DHT (%)	<2.5	(%)	11,80
Wave form : NEMA=TIF	<50	Subtranscient time constant (T"q) (ms)	10,0
Wave form : CEI=FHT	<2	Zero sequence reactance unsaturated (Xo) (%)	0,500
Number of bearing	1	Negative sequence reactance saturated (X2) (%)	10,60
Coupling	Direct	Armature time constant (Ta) (ms)	15,000
Voltage regulation at established rating	0,50	No load excitation current (io) (A)	1,00
(+/- %)	•	Full load excitation current (ic) (A)	3,90
Recovery time (Delta U = 20% transcient) (ms)	500	Full load excitation voltage (uc) (V)	33,0
Indication of protection	IP 23	Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	340,00
Technology	Without collar or	Transcient dip (4/4 load) - PF : 0,8 AR (%)	16,20
AVR Regulation	brush Yes	Withoupedulasses (W)	2810,00
, to the tegalitation	. 55	brusheat rejection (W)	12900,0
		Unbalanced load acceptance ratio (%)	0 100

DIMENSIONS

Containment DW		Containment DW 48H		
Commercial reference of the enclosure	M226 DW	Commercial reference of the enclosure	M226 DW48	
Length (mm)	3560	Length (mm)	3560	
Width (mm)	1200	Width (mm)	1200	
Height (mm)	2182	Height (mm)	2364	
Dry weight (kg)	2713	Dry weight (kg)	2978	
Tank capacity (L)	868	Tank capacity (L)	1630	
Acoustic pressure level @1m in dB(A)	76	Acoustic pressure level @1m in dB(A)	76	
Sound power level guaranteed (Lwa)	95	Sound power level guaranteed (Lwa)	95	
Acoustic pressure level @7m in dB(A)	65	Acoustic pressure level @7m in dB(A)	65	



J200K

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.

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