





DESCRIPTIVE

- Mechanic governor
- Mechanically welded chassis with antivibration
- 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.

J165K

Engine ref. 6068HF120-153
Alternator ref. KH01340T
Performance class G3

GENERAL CHARACTERISTICS

Frequency (Hz)	50 Hz
Voltage (V)	400/230
Standard Control Panel	APM303
Optional control panel	APM403
Optional Control Panel	M80
Optional control panel	TELYS

POWER					
Voltage	ES	SP	PRP		Standby Amps
voltage	kWe	kVA	kWe	kVA	Otanoby Amps
415/240	132	165	120	150	230
400/230	132	165	120	150	238
380/220	132	165	120	150	251
200/115	132	165	120	150	476
240 TRI	132	165	120	150	397
230 TRI	132	165	120	150	414
220 TRI	132	165	120	150	433
200/115 240 TRI 230 TRI	132 132 132	165 165 165	120 120 120	150 150 150	476 397 414

DIMENSIONS COMPACT VERSION	
Length (mm)	2370
Width (mm)	1114
Height (mm)	1470
Dry weight (kg)	1578
Tank capacity (L)	340

DIMENSIONS SOUNDPROOFED VERSION Type soundproofing M226 Length (mm) 3508

Width (mm)	1200
Height (mm)	1830
Dry weight (kg)	2198
Tank capacity (L)	340
Acoustic pressure level @1m in dB(A)	75
Sound power level guaranteed (Lwa)	94
Acoustic pressure level @7m in dB(A)	64



J165K

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine brand	JOHN DEERE
Engine ref.	6068HF120-153
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 x 127
Compression ratio	17 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6,35
Maximum stand-by power at rated RPM (kW)	153
Frequency regulation, steady state (%)	+/- 2.5%
BMEP at Max Power (bar)	18,20
Governor type	Mechanical

COOLING SYSTEM	
Radiator & Engine capacity (L)	25,80
Fan power (kW)	3
Fan air flow w/o restriction (m3/s)	4,44
Available restriction on air flow (mm H2O)	20
Type of coolant	Glycol-Ethylene

EMISSIONS	
Emission PM (mg/Nm3) 5% O2	80
Emission CO (mg/Nm3) 5% O2	150
Emission HC+NOx (g/kWh)	0
Emission HC (g/kW.h)	

EXHAUST Exhaust gas temperature @ ESP 50Hz (°C) Exhaust gas flow @ ESP 50 Hz (L/s) Max. exhaust back pressure (mm H2O) FUEL Consumption @ 110% load (L/h)	555 385 750 36,50 33,50 25	
Exhaust gas flow @ ESP 50 Hz (L/s) Max. exhaust back pressure (mm H2O) FUEL	385 750 36,50 33,50 25	
Max. exhaust back pressure (mm H2O)	750 36,50 33,50 25	
FUEL	36,50 33,50 25	
	33,50 25	
	33,50 25	
Consumption @ 110% load (L/h)	33,50 25	
	25	
Consumption @ 100% load (L/h)		
Consumption @ 75% load (L/h)	17	
Consumption @ 50% load (L/h)	• •	
Maximum fuel pump flow (L/h)	108	
OIL		
Oil system capacity including filters (L)	21,50	
Min. oil pressure (bar)	1	
Max. oil pressure (bar)	5	
Oil consumption 100% ESP (L/h)	0,77	
Oil sump capacity (L)	20,60	
HEAT BALANCE		
Heat rejection to exhaust (kW)		
Radiated heat to ambiant (kW)	16	
Heat rejection to coolant HT (kW)	55	
AIR INTAKE		
Max. intake restriction (mm H2O)	625	
Intake air flow (L/s)	170	
AIR INTAKE		



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ALTERNATOR CHARACTERISTICS

GENERAL DATA		OTHER DATA	
Alternator ref. Number of Phase Power factor (Cos Phi) Altitude (m) Overspeed (rpm) Number of pole Capacity for maintaining short circuit at 3 In for 10 s Insulation class T° class (H/125°), continuous 40°C T° class (H/163°C), standby 27°C Total Harmonic Distortion in no-load DHT (%) AVR Regulation Total Harmonic Distortion, on linear load DHT (%) Wave form: NEMA=TIF Wave form: CEI=FHT Number of bearing Coupling Voltage regulation at established rating (+/- %)	KH01340T Three phase 0,80 0 à 1000 2250 4 No H H / 125°K H / 163°K <2 Yes <5 <50 <2 Single Bearing Direct 0,50	Continuous Nominal Rating 40°C (kVA) Standby Rating 27°C (kVA) Efficiencies 100% of load (%) Air flow (m3/s) Short circuit ratio (Kcc) Direct axis synchro reactance unsaturated (Xd) (%) Quadra axis synchro reactance unsaturated (Xq) (%) Open circuit time constant (T'do) (ms) Direct axis transcient reactance saturated (X'd) (%) Short circuit transcient time constant (T'd) (ms) Direct axis subtranscient reactance saturated (X"d) (%) Subtranscient time constant (T"d) (ms) Quadra axis subtranscient reactance saturated (X"q) (%) Subtranscient time constant (T"q) (ms) Zero sequence reactance unsaturated (Xo) (%) Negative sequence reactance saturated (X2) (%) Armature time constant (Ta) (ms) No load excitation current (io) (A) Full load excitation current (ic) (A)	150 165 92,90 0,25 0,4870 305 155 2077 14,60 100 8,80 10 17,40 10 0,60 13,11 15 0,67 2,45
Number of bearing Coupling Voltage regulation at established rating	Single Bearing Direct	Negative sequence reactance saturated (X2) (%) Armature time constant (Ta) (ms) No load excitation current (io) (A)	13,11 15 0,67

		DII	MENSIONS
Dimensions soundproofed version		Dimensions DW compact version	
Type soundproofing	M226	Type soundproofing	
Length (mm)	3508	Length (mm)	3560
Width (mm)	1200	Width (mm)	1180
Height (mm)	1830	Height (mm)	1822
Dry weight (kg)	2198	Dry weight (kg)	2058
Tank capacity (L)	340	Tank capacity (L)	868
Acoustic pressure level @1m in dB(A)	75	Acoustic pressure level @1m in dB(A)	
Sound power level guaranteed (Lwa)	94	Sound power level guaranteed (Lwa)	
Acoustic pressure level @7m in dB(A)	64	Acoustic pressure level @7m in dB(A)	
Dimensions DW soundproofed vers	sion	Dimensions DW 48h soundproofe	d version
Type soundproofing	M226 DW	Type soundproofing	M226 DW48
Length (mm)	3560	Length (mm)	3560
Width (mm)	1200	Width (mm)	1200
Height (mm)	2182	Height (mm)	2182
Dry weight (kg)	2648	%PdnetE_5%	2816
Tank capacity (L)	868	Tank capacity (L)	1630
Acoustic pressure level @1m in dB(A)	74	Acoustic pressure level @1m in dB(A)	74
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Sound power le	vel guarante	eed (Lwa	1)
Acoustic press	sure level (@7m in	dB(A)

94 Sound power level guaranteed (Lwa)64 Acoustic pressure level @7m in dB(A)

94 64



J165K

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.

APM403, basic generating set and power plant control



The APM403 is a versatile control unit which allows operation in manual or automatic mode

Measurements: voltage and current

kW/kWh/kVA power meters

Standard specifications: Voltmeter, Frequency meter.

Optional: Battery ammeter. J1939 CAN ECU engine control

Alarms and faults: Oil pressure, Coolant temperature, Overspeed, Start-up failure, alternator min/max, Emergency stop button.

Engine parameters: Fuel level, hour counter, battery

Optional (standard at 24V): Oil pressure, water temperature. Event log/ Management of the last 300 genset events.

Mains and genset protection

Clock management

USB connections, USB Host and PC, Communications: RS485 INTERFACE

ModBUS protocol /SNMP

Optional: Ethernet, GPRS, remote control, 3G, 4G,

Websupervisor, SMS, E-mails

M80, transfer of information



The M80 is a dual-function control unit. It can be used as a basic terminal block for connecting a control box and as an instrument panel with a direct read facility, with displays giving a global view of your generating set's basic parameters.

Offers the following functions:

Engine parameters: tachometer, working hours counter, coolant temperature indicator, oil pressure indicator, emergency stop button, customer connection terminal block, CE.

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.