



DESCRIPTIVE

- Stage V engine
- Four-pole circuit breaker
- Connection terminal box rental type
- Containment fuel tank and large autonomy
- Forks and frame protection pads
- Inlet air preheating
- Battery isolating switch
- Oil drainage pump
- Heavy duty air filter with interchangeable cartridge
- Primary fuel filter
- Heat hand protections (EC standards)
- Electronical governor
- Access door to the radiator

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.

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Engine ref. 6068HP550
Kohler Alternator ref. KH01340T
Canopy M3226
Performance class G3

GENERAL CHARACTERISTICS

 Frequency (Hz)
 50 Hz

 Voltage (V)
 400/230

 Standard Control Panel
 APM403

voltage kWe	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
400/230	132	165	120	150	238
DIMENSION	S				
l onath (mm)					2004

DIMENSIONS	
Length (mm)	3884
Width (mm)	1191
Height (mm)	2368
Dry weight (kg)	3434
Tank capacity (L)	735

SOUND LEVELS	
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	75
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	65
Sound power level guaranteed (Lwa) 50Hz (75% PRP)(Associated uncertainty)	94 (0.7)



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ENGINE CHARACTERISTICS

GENERAL ENGINE DATAS	
Engine brand	JOHN DEERI
Engine ref.	6068HP550
Air inlet system	Turbo
Cylinders configuration	L
Number of cylinders	6
Displacement (I)	6.72
Charge Air coolant	Air/Air
Bore (mm) x Stroke (mm)	106 x 127
Compression ratio	17.2 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.35
Maximum stand-by power at rated	
RPM (kW)	165
BMEP @ PRP 50 Hz (bar)	17.80
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (I) Fan power 50Hz (kW) Type of coolant	34.20 9.90 Glycol-Ethylene

EMISSIONS	
Emissions PM (g/kW.h)	0.00014
Emissions CO (g/kW.h)	0.001
Emissions NOx (g/kW.h)	0.014
Emissions HC (g/kW.h)	0.009

DIESEL EXHAUST FLUID	
DEF Tank Capacity (L) Fuel	113 L
Cons. @ ESP Max Power (I/h)	1.7
Cons. @ PRP Max Power (I/h)	1.5
Cons. @ 75% of PRP Power (I/h)	1.2
Cons. @ 50% of PRP Power (I/h)	0.5

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C)	431
Exhaust gas flow @ ESP 50Hz (I/s)	350
Max. exhaust back pressure (mm H2O)	1200
FUEL	
Fuel consumption @ ESP Max Power (I/h)	39.20
Fuel consumption @ PRP Max Power (I/h)	35.60
Fuel consumption @ 75% of PRP Power (I/h)	26.70
Fuel consumption @ 50% of PRP Power (I/h)	18.70
Maximum fuel pump flow (I/h)	145.90
OIL	
Oil system capacity including filters (I)	32
Max. oil pressure (bar)	2

HEAT BALANCE	
Radiated heat to ambiant (kW)	101
Heat rejection to coolant HT (kW)	100
AIR INTAKE	
Max. intake restriction (mm H2O)	625
Intake air flow (I/s)	168



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ALTERNATOR CHARACTERISTICS

Alternator ref.	KH01340T	Continuous Nominal Rating 40°C (kVA)	150
Number of Phase	Three phase	Standby Rating 27°C (kVA)	165
Power factor (Cos Phi)	0.80	Efficiencies 100% of load (%)	93
Altitude (m)	0 à 1000	Air flow (m3/s)	0.25
Overspeed (rpm)	2250	Short circuit ratio (Kcc)	0.4870
Number of pole	4	Direct axis synchro reactance unsaturated (Xd) (%)	305
Capacity for maintaining short circuit at	Yes	Quadra axis synchro reactance unsaturated (Xq) (%)	155
3 In for 10 s Insulation class	Н	Open circuit time constant (T'do) (ms)	2077
T° class (H/125°), continuous 40°C	H / 125°K	Direct axis transcient reactance saturated (X'd) (%)	14.60
T° class (H/163°C), standby 27°C	H / 163°K	Short circuit transcient time constant (T'd) (ms)	100
AVR Regulation	Yes	Direct axis subtranscient reactance saturated (X"d) (%)	8.80
Total Harmonic Distortion in no-load	<2	Subtranscient time constant (T"d) (ms)	10
DHT (%) Total Harmonic Distortion, on linear load DHT (%)	<5	Quadra axis subtranscient reactance saturated (X"q) (%)	17.40
Wave form : NEMA=TIF	<50	Subtranscient time constant (T"q) (ms)	10
Wave form : CEI=FHT	<2	Zero sequence reactance unsaturated (Xo) (%)	0.60
Number of bearing	Single Bearing	Negative sequence reactance saturated (X2) (%)	13.11
Coupling	Direct	Armature time constant (Ta) (ms)	15
Voltage regulation at established rating	0.50	No load excitation current (io) (A)	0.86
(+/- %)		Full load excitation current (ic) (A)	3.15
Recovery time (Delta U = 20% transcient) (ms)	500	Full load excitation voltage (uc) (V)	24
Indication of protection	IP 23	Engine start (Delta U = 20% perm. or 30% trans.) (kVA)	390.22
Technology	Brushless	Transcient dip (4/4 load) - PF : 0,8 AR (%)	11
		No load losses (W)	2893.99
		Heat rejection (W)	8913.74
		Unbalanced load acceptance ratio (%)	100

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CONTROL PANEL



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 voltage.

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