



DESCRIPTIVE

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

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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DIMENSIONS

Engine ref. 6090CP550
Kohler Alternator description KH01641T
Canopy M5227
Performance class G3

GENERAL CHARACTERISTICS

Sound power level guaranteed (Lwa) 50Hz

(75% PRP) (Associated uncertainty)

 Frequency (Hz)
 50 Hz

 Voltage (V)
 400/230

 Standard Control Panel
 APM403

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	Otaliday Amps
400/230	264	330	240	300	476

Dimensions		
Length (mm)	4332	
Width (mm)	1360	
Height (mm)	2580	
Dry weight (kg)	4850	
Tank capacity (L)	1083	
SOUND LEVELS		
Acoustic pressure level @1m in dB(A) 50Hz	76	
(75% PRP)		
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	66	
(10/01111/		

96 (0.7)



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ENGINE CHARACTERISTICS

GENERAL ENGINE DATAS	
Engine brand	JOHN DEERE
Engine ref.	6090CP550
Air inlet system	Turbo
Cylinder configuration	L
Number of cylinders	6
Displacement (I)	8.92
Charge Air coolant	Air/Air
Bore (mm) x Stroke (mm)	118 x 136
Compression ratio	16 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.80
Maximum stand-by power at rated	
RPM (kW)	305
BMEP @ PRP 50 Hz (bar)	24.80
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (I)	30.60
Fan power 50Hz (kW)	10
Fan air flow w/o restriction (m3/s)	10
Available restriction on air flow (mm	25
H2O)	
Type of coolant	Glycol-Ethylene

EMISSIONS	
Emissions PM (g/kW.h)	0.00046
Emissions CO (g/kW.h)	0.001
Emissions NOx (g/kW.h)	0.084
Emissions HC (g/kW.h)	0.004

DEF Tank Capacity (L)	113
Cons. @ ESP Max Power (I/h)	3.1
Cons. @ PRP Max Power (I/h)	2.9
Cons. @ 75% of PRP Power (I/h)	1.5
Cons. @ 50% of PRP Power (I/h)	1.1

DIESEL EXHAUST FLUID

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C) Exhaust gas flow @ ESP 50Hz (l/s) Max. exhaust back pressure (mm H2O)	454 633.30 2200
FUEL	
Fuel consumption @ ESP Max Power (I/h) Fuel consumption @ PRP Max Power (I/h) Fuel consumption @ 75% of PRP Power (I/h) Fuel consumption @ 50% of PRP Power (I/h) Maximum fuel pump flow (I/h)	73.40 65.20 48.30 32.70 145.90
OIL	
Oil system capacity including filters (I) Min. oil pressure (bar) Oil consumption 100% ESP 50Hz (I/h)	40 1 0.1840
HEAT BALANCE	
Radiated heat to ambiant (kW)	168
AIR INTAKE	



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ALTERNATOR CHARACTERISTICS

Kohler Alternator description	KH01641T	Continuous Nominal Rating 40°C (kVA)	30
Number of Phase	Three phase	Standby Rating 27°C (kVA)	33
Power factor (Cos Phi)	0.80	Efficiencies 100% of load (%)	93
Altitude (m)	0 à 1000	Air flow (m3/s)	0.
Overspeed (rpm)	2250	Short circuit ratio (Kcc)	0.
Number of pole	4	Direct axis synchro reactance unsaturated (Xd) (%)	34
Capacity for maintaining short circuit at	Yes	Quadra axis synchro reactance unsaturated (Xq) (%)	17
300% of rated current for 10 s Insulation class	Н	Open circuit time constant (T'do) (ms)	25
	п Н / 125°K	Direct axis transcient reactance saturated (X'd) (%)	13
Γ° class (H/125°), continuous 40°C	н / 125 K Н / 163°K	Short circuit transcient time constant (T'd) (ms)	10
T° class (H/163°C), standby 27°C	Yes	Direct axis subtranscient reactance saturated (X"d)	10
AVR Regulation Total Harmonic Distortion in no-load		(%) Subtranscient time constant (T"d) (ms)	10
DHT (%)	<2.5	Quadra axis subtranscient reactance saturated (X"q)	
Total Harmonic Distortion, on linear load	<2.5	(%)	14
DHT (%) Wave form : NEMA=TIF	<50	Subtranscient time constant (T"q) (ms)	10
Wave form : CEI=FHT	<2	Zero sequence reactance unsaturated (Xo) (%)	0.5
Number of bearing	Single Bearing	Negative sequence reactance saturated (X2) (%)	12
Coupling	Direct	Armature time constant (Ta) (ms)	15
Voltage regulation at established rating		No load excitation current (io) (A)	0.9
(+/- %)	0.50	Full load excitation current (ic) (A)	3.4
Recovery time (Delta U = 20%	500	Full load excitation voltage (uc) (V)	49
transcient) (ms) Indication of protection	IP 23	Engine start (Delta U = 20% perm. or 30% trans.) (kVA)	83
Technology	Brushless	Transcient dip (4/4 load) - PF: 0,8 AR (%)	11
		No load losses (W)	44
		Heat rejected to ambient air (kW)	17
		Unbalanced load acceptance ratio (%)	10

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CONTROL PANEL

APM403, basic generating set and power plan 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

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