





### **DESCRIPTIVE**

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with
- 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 UNCERTAINLY**

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.

## **J66K**

Engine ref. 4045TF120
Alternator ref. AT00840T
Performance class G3

### **GENERAL CHARACTERISTICS**

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

POWER					
Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	Standby Amps
220 TRI	53	66	48	60	173
220/127	53	66	48	60	173
415/240	53	66	48	60	92
400/230	53	66	48	60	95
380/220	53	66	48	60	100
200/115	53	66	48	60	191
240 TRI	53	66	48	60	159
230 TRI	53	66	48	60	166

DIMENSIONS COMPACT VER	RSION
Length (mm)	1870
Width (mm)	994
Height (mm)	1360
Dry weight (kg)	1022
Tank capacity (L)	180

DIMENSIONS SOUNDPROOFED	VERSION
Commercial reference of the enclosure	M128
Length (mm)	2300
Width (mm)	1060
Height (mm)	1680
Dry weight (kg)	1432
Tank capacity (L)	180
Acoustic pressure level @1m in dB(A)	73
Sound power level guaranteed (Lwa)	91



# **J66K**

## **ENGINE CHARACTERISTICS**

GENERAL ENGINE DATA	
Engine model	JOHN DEERE
Engine ref.	4045TF120
Air inlet	Turbo
Cylinders arrangement	L
Number of cylinders	4
Displacement (C.I.)	4.48
Air coolant	
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)	70
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	11.24
Governor type	Mechanical

COOLING SYSTEM	
Radiator & Engine capacity (L)	23.60
Max water temperature (°C)	105
Outlet water temperature (°C)	93
Fan power (kW)	1.40
Fan air flow w/o restriction (m3/s)	2.53
Available restriction on air flow (mm Water Column)	20
Type of coolant	Glycol-Ethylene
Thermostat (°C)	82-94

EMISSIONS		
Emission PM (mg/Nm3)	60	
Emission CO (mg/Nm3)	190	
Emission HCNOx (g/kWh)		
Emission HC (mg/Nm3)	150	

EXHAUST	
Exhaust gas temperature (°C)	545
Exhaust gas flow (L/s)	176
Max. exhaust back pressure (mm EC)	750
FUEL	
Consumption @ 110% load (L/h)	17.50
Consumption @ 100% load (L/h)	16
Consumption @ 75% load (L/h)	12
Consumption @ 50% load (L/h)	8.50
Maximum fuel pump flow (L/h)	108
OIL	
Oil capacity (L)	13.50
Min. oil pressure (bar)	1
Max. oil pressure (bar)	5
Oil consumption 100% load (L/h)	0.0160
Carter oil capacity (L)	12.50
HEAT BALANCE	
Heat rejection to exhaust (kW)	54
Radiated heat to ambiant (kW)	8
Haet rejection to coolant (kW)	35
AIR INTAKE	
Max. intake restriction (mm EC)	625
Intake air flow (L/s)	66



## **J66K**

## **ALTERNATOR CHARACTERISTICS**

GENERAL DATA		OTHER DATA	
Alternator commercial brand	SDMO	Continuous Nominal Rating 40°C (kVA)	63
Alternator ref.	AT00840T	Standby Rating 27°C (kVA)	71
Number of Phase	Three phase	Efficiencies 100% of load (%)	90.20
Power factor (Cos Phi)	0.80	Air flow (m3/s)	0.1180
Altitude (m)	0 to 1000	Short circuit ratio (Kcc)	0.59
Overspeed (rpm)	2250	Direct axis synchro reactance unsaturated (Xd) (%)	283.50
Number of pole	4	Quadra axis synchro reactance unsaturated (Xq) (%)	111
Capacity for maintaining short circuit at	Yes	Open circuit time constant (T"do) (ms)	1200
3 In for 10 s Insulation class	Н	Direct axis transcient reactance saturated (X"d) (%)	13.40
T° class, continuous 40°C	H / 125°K	Short circuit transcient time constant (T"d) (ms)	62
T° class, standby 27°C	H / 163°K	Direct axis subtranscient reactance saturated (X'"'d) (%)	7.10
AVR Regulation	Yes	Subtranscient time constant (T""d) (ms)	14
Total Harmonic Distortion in no-load DHT (%)	3.8	Quadra axis subtranscient reactance saturated (X""q) (%)	34.60
Total Harmonic Distortion, on load DHT (%)	3	Subtranscient time constant (T"q) (ms)	
Wave form : NEMA=TIF	<45	Zero sequence reactance unsaturated (Xo) (%)	3.15
Wave form : CEI=FHT	<2	Negative sequence reactance saturated (X2) (%)	23.40
Number of bearing	1	Armature time constant (Ta) (ms)	28
Coupling	Direct	No load excitation current (io) (A)	0.60
Voltage regulation at established rating	+/- 1%	Full load excitation current (ic) (A)	2
(+/- %)	500	Full load excitation voltage (uc) (V)	22.70
Recovery time (Delta U = 20% transcient) (ms)	500	Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	152.38
Protection class	IP 21	Transcient dip (4/4 load) - PF : 0,8 AR (%)	15.50
Technology	Without collar or	No load losses (W)	1130.99
	brush	Heat rejection (W)	5476

### **DIMENSIONS**

CONTAINMENT		CONTAINMENT 48H	
Commercial reference of the enclosure	M128 DW	Commercial reference of the enclosure	M128
Length (mm)	2344	Confinercial reference of the enclosure	DW48
Width (mm)	1060	Length (mm)	2344
Height (mm)	1900	Width (mm)	1060
Dry weight (kg)	1679	Height (mm)	1989
Tank capacity (L)	390	Dry weight (kg)	1709
Acoustic pressure level @1m in dB(A)	72	Tank capacity (L)	700
Sound power level guaranteed (Lwa)	91	Acoustic pressure level @1m in dB(A)	72
grandinos (End)	•	Sound power level guaranteed (Lwa)	91



### **J66K**

### **CONTROL PANEL**

### NEXYS, comprehensive and simple

### TELYS, ergonomic and user-friendly





The NEXYS is a versatile control unit allowing operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly NEXYS offers high-quality basic functions to guarantee simple, reliable operation of your generating

Offers the following functions:

Standard electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, engine speed, battery voltage, fuel level.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed (sup. to 60 Kva), charging alternator fault, low fuel level, emergency stop.

For more information, please refer to the sales documentation.

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.