

# J44K

Engine JOHN DEERE , 3029TF120  
Alternator MECC ALTE , ECO32-3S

## STANDARD FEATURES

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts
- 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



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	35 / 44	32 / 40	61		
400/230	35 / 44	32 / 40	64	Leng : 1700mm [67in]	820kg [1808lbs] Net
380/220	35 / 44	32 / 40	67	Widt : 896mm [35in]	930kg [2050lbs] Gross
240 TRI	35 / 44	32 / 40	106	Heig : 1221mm [48in]	
230 TRI	35 / 44	32 / 40	110		
220 TRI	35 / 44	32 / 40	115		
220/127	28 / 35	25 / 32	92		
200/115	35 / 44	32 / 40	127		



### 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.

### TERM OF USE

Standard reference conditions ESP/PRP 25 C°/25 C° Air Intlet Temp, 1000 m/1000 m m A.S.L. 60 % relative humidity.

	Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
	M127-DW	73.4	63	Leng : 2160mm [85in] Widt : 966mm [38in] Heig : 1582mm [62in]	1227kg [2705lbs] 1457kg [3212lbs]	230 L
	M127	73.4	63	Leng : 2080mm [82in] Widt : 960mm [38in] Heig : 1415mm [56in]	1040kg [2293lbs] 1150kg [2535lbs]	100 L



## ENGINE SPECIFICATIONS

<b>DATA GENERAL DATA</b>	Motor model	JOHN DEERE 3029TF120 , 4-temps, TURBO , N/A 3 X
	Cylinder arrangement	L
	Displacement (C.l.)	2.91
	Bore (mm) X Stroke (mm)	106 X 110
	Compression ratio	17.8:1
	Speed (RPM)	1500
	Pistons speed (m/s)	5.5
	Maximum stand-by power at rated RPM (kW)	40
	Frequency regulation (%)	2.5
	BMEP (bar)	10
	Governor type	MECA
<b>EXHAUST SYSTEM</b>	Exhaust gas temperature (°F)	510
	Exhaust gas flow (L/s)	105.6
	Max. exhaust back pressure (mm CE)	625
<b>FUEL SYSTEM</b>	Consumption @ 110% load (L/h)	10.8
	Consumption @ 100% load (L/h)	9.8
	Consumption @ 75% load (L/h)	7.5
	Consumption @ 50% load (L/h)	5.3
	Maximum fuel pump flow (L/hr)	111
<b>OIL</b>	Oil capacity (L)	6
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	5
	Oil consumption 100% load (L/h)	0.009
	Carter oil capacity (L)	5.3
<b>THERMAL BALANCE</b>	Heat rejection to exhaust (kW)	38
	Radiated heat to ambient (kW)	5
	Heat rejection to coolant (kW)	28
<b>AIR INTAKE</b>	AIR INTAKE_entree_max%	300
	Intake air flow (L/s)	37.8
<b>COOLANT SYSTEM</b>	Radiator & Engine capacity (L)	16.1
	Max water temperature (°C)	105
	Outlet water temperature (°C)	93
	Fan power (kW)	1.5
	Fan air flow w/o restriction (m3/s)	1.86
	Available restriction on air flow (mm CE)	20
	Type of coolant	GENCOOL
	Thermostat (°C)	82-94
<b>EMISSIONS</b>	Emissions PM (g/kW.h)	N/A
	Emission CO (g/kW.h)	N/A
	Emissions HCNOx (g/kWh)	N/A
	Emission HC (g/kW.h)	N/A

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## ALTERNATOR SPECIFICATIONS

<b>DATA</b> <b>GENERAL DATA</b>	Alternator brand	MECC ALTE
	Alternator	ECO32-3S
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	1000
	Overspeed (rpm)	N/A
	Number of pole	4
	Excitation system	NO
	Insulation class / Temperature class	H / H
	Regulation	AVR
	Total harmonics TGH/THC	N/A
	Wave form : NEMA=TIF-TGH/THC	N/A
	Wave form : CEI=FHT-TGH/THC	N/A
	Number of bearing	1
	Coupling	DIRECT
	Voltage regulation 0 à 100%	N/A
	Recovery time (Delta U = 20% transitoire) (ms)	N/A
	<b>OTHER</b> <b>DATA</b>	Continuous Nominal Rating 40°C (kVA)
Standby Rating 27°C (kVA)		44
Efficiencies 4/4 load (%)		87.4
Air flow (m3/s)		0.196
Short circuit ratio (Kcc)		0.8
Direct axis synchro reactance unsaturated (Xd) (%)		190
Quadra axis synchro reactance unsaturated (Xq) (%)		98
Open circuit time constant (T'do) (ms)		1.4
Direct axis transient reactance saturated (X'd) (%)		14.3
Short circuit transient time constant (T'd) (ms)		61
Direct axis subtransient reactance saturated (X''d) (%)		10
Subtransient time constant (T''d) (ms)		15
Quadra axis subtransient reactance saturated (X''q) (%)		30.6
Zero sequence reactance unsaturated (Xo) (%)		2.7
Negative sequence reactance saturated (X2) (%)		21.5
Armature time constant (Ta) (ms)		31
No load excitation current (io) (ms)		N/A
Full load excitation current (ic) (A)		N/A
Full load excitation voltage (uc) (A)		N/A
Recovery time (Delta U = 20% transitoire) (ms)		N/A
Motor start (Delta U = 20% perm. or 50% trans.) (ms)		N/A
Transient dip (4/4 charge) - PF : 0,8 AR (%)		N/A
No load losses (kW)		N/A
Heat rejection (kW)	N/A	

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## CONTROL PANEL

### Standard

### NEXYS



#### NEXYS

Specifications : Frequency meter, Ammeter, Voltmeter  
Alarms and faults : Oil pressure, water temperature, Overcrank, Overspeed ( >60 kVA), Min/max alternator, Low fuel level, Emergency stop  
Engine parameters : Hours counter, Engine speed, Battery voltage, Fuel level, Air preheating

### Option

### TELYS



#### TELYS

Specifications : Frequency meter, Ammeter, Voltmeter  
Alarms and faults : Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop  
Engine parameters : Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level