

Model: J44K

Engine: JOHN DEERE, 3029TF120

Alternator: MECC ALTE, ECO 32-3S

Specifications

- Mechanical governor
- Mechanically welded chassis with anti-vibration suspension
- Power circuit breaker
- Radiator for wiring T° of 50°C [122°F] max with mechanical fan
- Protective grille for fan and rotating parts
- 9dB(A) silencer supplied separately
- Charged DC starting battery with electrolyte
- 12 V charging alternator and starter
- Supplied with oil and coolant -30°C
- User manual and commissioning guide



Generator Ratings

Voltage	Power ESP kW/kVA	Power RRP kW/kVA	Standby Amps	Dimensions	Weight
415/240	35 / 44	32 / 40	61	Length: 1700 Width: 896 Height: 1221	820kg Net 930kg Gross
400/230	35 / 44	32 / 40	64		
380/220	35 / 44	32 / 40	67		
240/120	35 / 44	32 / 40	106		
230/115	35 / 44	32 / 40	110		
220/110	35 / 44	32 / 40	115		
220/127	28 / 35	25 / 32	92		
200/115	35 / 44	32 / 40	12		

RRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. A 10% overload capability is available for a period of 1 hour within 12hour period of operation, in accordance with ISO 3046-1.

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: Standard reference conditions 25 ° C Air Inlet Temp, 100m A.S.L 60% relative humidity. All engine performance data based on the above mentioned continuous

ratings.

Canopy Version

Type	dB(A)@7m	Dimensions	Weight	Tank
M127	63	Length: 2080 Width: 960 Height: 1415	1040kg Net 1150kg Gross	100 L
M127-DW	63	Length: 2160 Width: 966 Height: 1582	1227kg Net 1457kg Gross	230 L

All units supplied with canopy as standard except when requested.

Engine Data

Manufacturer/Model	JOHN DEERE 3029TF120
Cylinder arrangement	3 x L
Displacement	2.9L [177.0C.I.]
Bore and stroke	106mm [4.2in.] X 110mm [4.3in.]
Compression ratio	17.8:1
Rated RPM	1500 Rpm
Piston speed	5.5m/s [18.0ft./s]
Max. standby power at rated RPM	40kW [54BHP]
Frequency regulation, steady state	+/- 2.5%
BMEP	11.5bar [167psi]
Governor: type	MECA

Exhaust System

Exhaust temperature	510°C [950°F]
Exhaust gas flow	105.6L/s [224cfm]
Max back pressure	625mm CE [25in. WG]

Fuel System

110% (Stand by power)	13.6L/h [3.6gal/hr]
100% (of the Prime Power)	11.19L/h [3.0gal/hr]
75% (of the Prime Power)	8.4L/h [2.2gal/hr]
50% (of the Prime Power)	5.96L/h [1.6gal/hr]
Total fuel flow	111L/h [29.3gal/hr]

Oil System

Total oil capacity w/filters	6L [1.6gal]
Oil Pressure low idle	1bar [14.5psi]
Oil Pressure rated RPM	5bar [72.5psi]
Oil consumption 100% load	0.009L/h [0.002gal/hr]
Oil capacity carter	5.3L [1.4gal]

Thermal balance 100% load

Heat rejection to exhaust	38kW [2161Btu/mn]
Radiated heat to ambient	5kW [284Btu/mn]
Heat rejection to coolant	28kW [1592Btu/mn]

Air intake

Max. intake restriction	300mm CE [12in. WG]
Engine air flow	37.8L/s [80cfm]

Coolant system

Radiator & engine capacity	16.1L [4.3gal]
Max water temperature	105°C [221°F]
Outlet water temperature	93°C [199°F]
Fan power	1.5 kW
Fan air flow w/o restriction	1.86m ³ /s [3942cfm]
Available restriction on air flow	20mm CE [0.8in. WG]
Type of coolant	Gencool
Thermostat	82-94 °C

Emissions

PM	60 mg/Nm ³
CO	190 mg/Nm ³
Nox	3800 mg/Nm ³
HC	150 mg/Nm ³

Alternator Specifications

Manufacturer/Type	MECC ALTE (ECO 32-3S)
NUMBER OF PHASE	3
POWER FACTOR (Cos Phi)	0.8
ALTITUDE	1000
OVERSPEED	[N/A]
POLE: NUMBER	4
EXCITER TYPE	No
INSULATION: CLASS, TEMPERATURE RISE	H / H
VOLTAGE REGULATOR	AVR
SUSTAINED SHORT CIRCUIT CURRENT	[N/A]
TOTAL HARMONICS (TGH/THC)	[N/A]
WAVE FROM : NEMA = TIF- TGH/THC	[N/A]
WAVE FROM: CEI = FHT - TGH/THC	2
BEARING: NUMBER	1
COUPLING	Direct
VOLTAGE REGULATION 0 TO 100% LOAD	[N/A]
RECOVERY TIME (20% VOLT DIP) MS	[N/A]
SkVA WITH 90% OF NORMAL SUSTAINED VOLTAGE (AT 0.4PF)	[N/A]

Other Alternator Data

CONTINUOUS NOMINAL RATING @ 40° C	40 kVA
STANDBY RATING @ 27° C	44 kVA
EFFICIENCIES @ 4/4 LOAD	87.4%
AIR FLOW	0.196m ³ /s [415.30cfm]
SHORT CIRCUIT RATIO: 50 (Kcc)	0.8
DIRECT AXIS SYNCHRO REACTANCE UNSATURATED (Xd)	190 %
QUADRA AXIS SYNCHRO REACTANCE UNSATURATED (Xq)	98 %
OPEN CIRCUIT TIME CONSTANT: 50 (T'do)	1.4 ms
DIRECT AXIS TRANSIENT REACTANCE SATURATED (X'd)	14.3 %

Other Alternator Data Continued

SHORT CIRCUIT TRANSIENT TIME CONSTANT (T'd)	61 ms
DIRECT AXIS SUBTRANSIENT REACTANCE SATURATED (X'd)	10 %
SUBTRANSIENT TIME CONSTANT (T'd)	15 ms
QUADRA AXIS SUBTRANSIENT REACTANCE SATURATED (X'q)	30.6 %
ZERO SEQUENCE REACTANCE UNSATURATED (X ₀)	2.7 %
NEGATIVE SEQUENCE REACTANCE SATURATED (X ₂)	21.5 %
ARMATURE TIME CONSTANT (T _a)	31 ms
NO LOAD EXCITATION CURRENT (i ₀)	[N/A]
FULL LOAD EXCITATION VOLTAGE (u _c)	[N/A]
RECOVERY TIME (DELTA U = 20% TRANSITOIRE)	[N/A]
MOTOR START (DELTA = 20% PERM. OR 50% TRANS.)	[N/A]
TRANSIENT DIP (4/4 CHARGE) - PF : 1.8AR	[N/A]
NO LOAD LOSSES	[N/A]
HEAT REJECTION	[N/A]