



J40U

Engine JOHN DEERE , 3029TF120 Alternator MECC ALTE , ECO 32-3S

STANDARD FEATURES

- Mechanical governor
- Mechanically welded chassis with antivibration 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



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
480/277	40 / 50	36 / 45	60		
440/254	40 / 50	36 / 45	66	Length: 1700mm [67in]	820kg [1808 lbs] Net
380/220	40 / 50	36 / 45	76	Width: 896mm [35in]	930kg [2050 lbs] Gross
240/120	40 / 50	36 / 45	120	Heigth: 1221mm [48in]	
230/115	32 / 40	29 / 36	100		
220/127	40 / 50	36 / 45	131		
208/120	37 / 46	33 / 42	128		

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. A 10% overload capability is available for a period of 1 hour within 12-hour 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.

TERM OF USE

Standard reference conditions 25 °C Air Intlet Temp, 1000 m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

	Type	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
	M127	77	67	Length: 2080mm [82in] Width: 960mm [38in] Heigth: 1415mm [56in]	1040kg [2293lbs] Net 1150kg [2535lbs] Gross	100 L
10.4	M127-DW	77	67	Length: 2160mm [85in] Width: 966mm [38in] Heigth: 1582mm [62in]	1227kg [2705lbs] Net 1457kg [3212lbs] Gross	230 L





ENGINE SPECIFICATIONS

		JOHN DEERE 3029TF120 , 4-strokes, Turbo	
	Manufacturer / Model	, [N/A] 3 X	
	Cylinder Arrangement	L	
	Displacement	2.9L [177.0C.I.]	
	Bore and Stroke	106mm [4.2in.] X 110mm [4.3in.]	
STANDARD	Compression ratio	17.8:1	
	Rated RPM	1800 Rpm	
FEATURES	Piston Speed	6.6m/s [21.7ft./s]	
	Max. stand by Power at rated RPM	46kW [62BHP]	
	Frequency regulation, steady state	+/- 2.5%	
	BMEP	11.19bar [162psi]	
	Governor: type	MECA	
EXHAUST	Exhaust temperature	517°C [963°F]	
SYSTEM	Exhaust gas flow	138L/s [292cfm]	
	Max back pressure	625mm CE [25in. WG]	
	110% (Stand By power)	14.93L/h [3.9gal/hr]	
	100% (of the Prime Power)	13.11L/h [3.5gal/hr]	
FUEL SYSTEM	75% (of the Prime Power)	10.1L/h [2.7gal/hr]	
	50% (of the Prime Power)	6.91L/h [1.8gal/hr]	
	Max. fuel pump flow	108L/h [28.5gal/hr]	
	Total oil capacity w/filters	6L [1.6gal]	
	Oil Pressure low idle	1bar [14.5psi]	
OIL SYSTEM	Oil Pressure rated RPM	5bar [72.5psi]	
	Oil consumption 100% load	0.01L/h [0.003gal/hr]	
	Oil capacity carter	5.3L [1.4gal]	
THERMAL	Heat rejection to exhaust	43kW [2445Btu/mn]	
BALANCE	Radiated heat to ambiant	5kW [284Btu/mn]	
	Heat rejection to coolant	28kW [1592Btu/mn]	
AIR INTAKE	Max. intake restriction	300mm CE [12in. WG]	
	Engine air flow	48.6L/s [103cfm]	
	Radiator & engine capacity	16.1L [4.3gal]	
	Max water temperature	105°C [221°F]	
	Outlet water temperature	93°C [199°F]	
COOLANT	Fan power	2 kW	
SYSTEM	Fan air flow w/o restriction	2.34m3/s [4959cfm]	
	Available restriction on air flow	20mm CE [0.8in. WG]	
	Type of coolant	Gencool	
	Thermostat	82-94 °C	
	PM	N/A	
EMISSIONS	СО	N/A	
LEVEL	Nox	N/A	
	HC	N/A	





ALTERNATOR SPECIFICATIONS

	Manufacturer	MECC ALTE
	Туре	ECO 32-3S
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	1000
	Overspeed	[N/A]
	Pole : number	4
GENERAL	Exciter type	NO
	Insulation : class, temperature rise	H / H
DATAS	Voltage regulator	AVR
	Total harmonics (TGH/THC)	[N/A]
	Wave form : NEMA = TIF – TGH/THC	[N/A]
	Wave form : CEI = FHT – TGH/THC	2
	Bearing : number	1
	Coupling	Direct
	Voltage regulation 0 to 100% load	[N/A]
	Recovery time (20% Volt dip) ms SkVA with 90% of nominal sustained voltage (at	[N/A]
	0.4PF)	N/A
	Continuous nominal rating @ 40°C	48 kVA
	Standby rating @ 27°C	52.8 kVA
	Efficiencies @ 4/4 load	88.8 %
	Air flow	0.241m3/s [510.65cfm]
	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 %
	Short circuit transient time constant (T'd)	61 ms
OTHER	Direct axis subtransient reactance saturated (X"d)	10 %
OTHER	Subtransient time constant (T"d)	15 ms
DATAS	Quadra axis subtransient reactance saturated (X"q)	30.6 %
DATAS	Zero sequence reactance unsaturated (X q)	2.7 %
	Negative sequence reactance saturated (X2)	21.5 %
	Armature time constant (Ta)	31 ms
	No load excitation current (io)	[N/A]
	Full load excitation current (ic)	[N/A]
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	Full load excitation voltage (uc) Recovery time (Delta U = 20% transitoire)	[N/A] [N/A]
	Motor start (Delta = 20% perm. Or 50% trans.)	[N/A]
	Transient dip (4/4 charge) – PF : 1.8 AR	
	No load losses	[N/A]
	Heat rejection	[N/A] [N/A]





CONTROL PANEL

Standard

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, Alr preheating

Option

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

