

T8K

Engine MITSUBISHI , L3E-SD
Alternator MECC ALTE , ECO3-2S

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	6 / 7.5	5.5 / 6.8	10		
400/230	6 / 7.5	5.5 / 6.8	11	Leng : 1220mm [48in]	280kg [617lbs] Net
380/220	6 / 7.5	5.5 / 6.8	11	Widt : 700mm [28in]	330kg [728lbs] Gross
240 TRI	6 / 7.5	5.5 / 6.8	18	Heig : 922mm [36in]	
230 TRI	6 / 7.5	5.5 / 6.8	19		
220 TRI	6 / 7.5	5.5 / 6.8	20		
220/127	5.6 / 7	5.1 / 6.4	18		
200/115	6 / 7.5	5.5 / 6.8	22		


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, 100 m/100 m m A.S.L. 60 % relative humidity.

Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
 M125	69	59	Leng : 1482mm [58in]	390kg [860lbs]	50 L
			Widt : 760mm [30in]	440kg [970lbs]	
			Heig : 1030mm [41in]		



ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	MITSUBISHI L3E-SD , 4-temps, ATHMO , N/A 3 X
	Cylinder arrangement	L
	Displacement (C.I.)	0.95
	Bore (mm) X Stroke (mm)	76 X 70
	Compression ratio	23 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	3.5
	Maximum stand-by power at rated RPM (kW)	7.37
	Frequency regulation (%)	2.5
	BMEP (bar)	5.63
	Governor type	MECA
EXHAUST SYSTEM	Exhaust gas temperature (°F)	490
	Exhaust gas flow (L/s)	23.6
	Max. exhaust back pressure (mm CE)	800
FUEL SYSTEM	Consumption @ 110% load (L/h)	N/A
	Consumption @ 100% load (L/h)	2.3
	Consumption @ 75% load (L/h)	1.7
	Consumption @ 50% load (L/h)	1.3
	Maximum fuel pump flow (L/hr)	18
OIL	Oil capacity (L)	4.1
	Min. oil pressure (bar)	0.5
	Max. oil pressure (bar)	4
	Oil consumption 100% load (L/h)	0.006
	Carter oil capacity (L)	3.6
THERMAL BALANCE	Heat rejection to exhaust (kW)	7
	Radiated heat to ambient (kW)	0.5
	Heat rejection to coolant (kW)	8
AIR INTAKE	AIR INTAKE_entree_max%	310
	Intake air flow (L/s)	9.9
COOLANT SYSTEM	Radiator & Engine capacity (L)	3.7
	Max water temperature (°C)	111
	Outlet water temperature (°C)	93
	Fan power (kW)	0.2
	Fan air flow w/o restriction (m3/s)	0.4
	Available restriction on air flow (mm CE)	10
	Type of coolant	GENCOOL
	Thermostat (°C)	76.5-90
EMISSIONS	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

DATA GENERAL DATA	Alternator brand	MECC ALTE
	Alternator	ECO3-2S
	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	SR7/2
	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
OTHER DATA	Continuous Nominal Rating 40°C (kVA)	8
	Standby Rating 27°C (kVA)	9
	Efficiencies 4/4 load (%)	83.5
	Air flow (m3/s)	0.058
	Short circuit ratio (Kcc)	0.78
	Direct axis synchro reactance unsaturated (Xd) (%)	206
	Quadra axis synchro reactance unsaturated (Xq) (%)	68
	Open circuit time constant (T'do) (ms)	0.78
	Direct axis transient reactance saturated (X'd) (%)	18.5
	Short circuit transient time constant (T'd) (ms)	18
	Direct axis subtransient reactance saturated (X''d) (%)	13.3
	Subtransient time constant (T''d) (ms)	12
	Quadra axis subtransient reactance saturated (X''q) (%)	72.7
	Zero sequence reactance unsaturated (Xo) (%)	6.4
	Negative sequence reactance saturated (X2) (%)	18.3
	Armature time constant (Ta) (ms)	13
	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