

T7,5K

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

STANDARD FEATURES

- Mechanical governor
- Mechanically welded chassis with vibration isolators
- Main line 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 + cables
- 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
415/240	6 / 8	5 / 7	11	Length: 1405mm [55in] Width: 715mm [28in] Height: 1030mm [41in]	307kg [677lbs] Net 357kg [787lbs] Gross
400/230	6 / 8	5 / 7	12		
380/220	6 / 8	5 / 7	12		
240/120	6 / 8	5 / 7	19		
230/115	6 / 8	5 / 7	20		
220/110	6 / 8	5 / 7	21		
220/127	6 / 7	5 / 6	18		
200/115	6 / 8	5 / 7	23		

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 Inlet Temp, 100 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
M126	70.1	60.1	Length: 1750mm [69in]	455kg [1003lbs] Net	50 L
			Width: 715mm [28in] Height: 1230mm [48in]	505kg [1113lbs] Gross	





ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	MITSUBISHI L3E.SD , 4-strokes, Athmo , N/A 3 X
	Cylinder Arrangement	L
	Displacement	0.95L [58.0C.I.]
	Bore and Stroke	76mm [3.0in.] X 70mm [2.8in.]
	Compression ratio	23 : 1
	Rated RPM	1500 Rpm
	Piston Speed	3.5m/s [11.5ft./s]
	Max. stand by Power at rated RPM	7.37kW [10BHP]
	Frequency regulation, steady state	+/-2. 5%
	BMEP	5.62bar [81psi]
Governor : type	Meca	
EXHAUST SYSTEM	Exhaust temperature	490°C [914°F]
	Exhaust gas flow	23.6L/s [50cfm]
	Max back pressure	800mm CE [31in. WG]
FUEL SYSTEM	110% (Stand By power)	N/A
	100% (of the Prime Power)	2.3L/h [0.6gal/hr]
	75% (of the Prime Power)	1.7L/h [0.4gal/hr]
	50% (of the Prime Power)	1.3L/h [0.3gal/hr]
	Max. fuel pump flow	18L/h [4.8gal/hr]
OIL SYSTEM	Total oil capacity w/filters	4.1L [1.1gal]
	Oil Pressure low idle	0.5bar [7.2psi]
	Oil Pressure rated RPM	4bar [58.0psi]
	Oil consumption 100% load	0.006L/h [0.0gal/hr]
	Oil capacity carter	3.6L [1.0gal]
THERMAL BALANCE	Heat rejection to exhaust	7kW [398Btu/mn]
	Radiated heat to ambient	0.5kW [28Btu/mn]
	Heat rejection to coolant	8kW [455Btu/mn]
AIR INTAKE	Max. intake restriction	310mm CE [12in. WG]
	Engine air flow	9.9L/s [21cfm]
COOLANT SYSTEM	Radiator & engine capacity	3.7L [1.0gal]
	Max water temperature	111°C [232°F]
	Outlet water temperature	93°C [199°F]
	Fan power	0.2 kW
	Fan air flow w/o restriction	0.4m ³ /s [848cfm]
	Available restriction on air flow	10mm CE [0.4in. WG]
	Type of coolant	Gencool
	Thermostat	76.5-90 °C
EMISSIONS LEVEL	PM	120 mg/Nm ³
	CO	250 mg/Nm ³
	Nox	960 mg/Nm ³
	HC	30 mg/Nm ³



ALTERNATOR SPECIFICATIONS

GENERAL DATAS	Manufacturer / Type	MECC ALTE ECO3-2S
	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	SR7/2
	Sustained short circuit current	[N/A] C
	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	[N/A]
SkVA with 90% of nominal sustained voltage (at 0.4PF)	N/A	
OTHER DATAS	Continuous nominal rating @ 40°C	8 kVA
	Standby rating @ 27°C	9 kVA
	Efficiencies @ 4/4 load	83.5 %
	Air flow	3.5m3/s [7416.05cfm]
	Short circuit ratio;50 (Kcc)	0.78
	Direct axis synchro reactance unsaturated (Xd)	206 %
	Quadra axis synchro reactance unsaturated (Xq)	68 %
	Open circuit time constant;50 (T'do)	0.78 ms
	Direct axis transient reactance saturated (X'd)	18.5 %
	Short circuit transient time constant (T'd)	18 ms
	Direct axis subtransient reactance saturated (X''d)	13.3 %
	Subtransient time constant (T''d)	12 ms
	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)	13 ms
	No load excitation current (io)	[N/A]
	Full load excitation current (ic)	A
	Full load excitation voltage (uc)	[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 : 1.8 AR	[N/A]	
No load losses	[N/A]	
Heat rejection	[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, Air 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

