

**Model: T6KM**

**Engine: MITSUBISHI, L3E-SD**

**Alternator: MECC ALTE, ECO3-2S**

## 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
240MONO	5.5/5.5	5.0/5.0	22.9	Length: 1220 Width: 700 Height: 922	280kg Net 330kg Gross
230MONO	5.5/5.5	5.0/5.0	23.9		
220MONO	5.5/5.5	5.0/5.0	25.0		

**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
M125	59	Length: 1282 Width: 760 Height: 1030	390kg Net 440kg Gross	50L

All units supplied with canopy as standard except when requested.

## Engine Data

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]
Compression ratio	23 :1
Rated RPM	1500 RPM
Piston speed	3.5m/s [11.5ft/s]
Max. standby 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]
Total fuel 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	0.0006L/h [0.002gal/hr]
Oil capacity carter	3.6L [1.0gal]

## Thermal balance 100% load

Heat rejection to exhaust	7kW
Radiated heat to ambient	0.5kW
Heat rejection to coolant	8kW

## 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 <sup>3</sup> /s [848cfm]
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90°C

## Emissions

PM	120 mg/Nm <sup>3</sup>
CO	250 mg/Nm <sup>3</sup>
Nox	960 mg/Nm <sup>3</sup>
HC	30 mg/Nm <sup>3</sup>

## Alternator Specifications

Manufacturer/Type	MECC ALTE (ECO3-2S)
NUMBER OF PHASE	1
POWER FACTOR (Cos Phi)	1
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	
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	5 kVA
STANDBY RATING @ 27° C	6 kVA
EFFICIENCIES @ 4/4 LOAD	83.5%
AIR FLOW	0.0583m <sup>3</sup> /s [123.53cfm]
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

## Other Alternator Data Continued

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 (X <sub>0</sub> )	6.4 %
NEGATIVE SEQUENCE REACTANCE SATURATED (X <sub>2</sub> )	18.3%
ARMATURE TIME CONSTANT (T <sub>a</sub> )	13 m
NO LOAD EXCITATION CURRENT (i <sub>0</sub> )	[N/A]
FULL LOAD EXCITATION VOLTAGE (u <sub>c</sub> )	[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]