

Model: T17KM

Engine: MITSUBISHI, S4Q2.SD

Alternator: MECC ALTE, ECO28VL

Specifications

- Single bearing alternator IP 23 , insulation class H /H
- Radiator 50°C [122°F]°C max. T° air inlet with coolant cap
- Skid and vibration isolators
- Dry type air filter
- Main line circuit breaker
- Microprocessor control panel
- 12 V battery, rack and cable
- Industrial silencer (loose)
- User manual



Generator Ratings

Voltage	Power ESP kW/kVA	Power RRP kW/kVA	Standby Amps	Dimensions	Weight
240MONO	17 / 17	15 / 15	71	Length: 1700 Width: 896 Height: 1121	580kg Net 680kg Gross
230MONO	17 / 17	15 / 15	74		
220MONO	17 / 17	15 / 15	77		

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	61	Length: 2080 Width: 904 Height: 1415	810kg Net 910kg Gross	100L

All units supplied with canopy as standard except when requested.

Engine Data

Manufacturer/Model	mitsubishi S4Q2.SD, 4-cycle, Athmo
Cylinder arrangement	4 X L
Displacement	2.50L [152.6C.I.]
Bore and stroke	88mm [3.5in.] X 103mm [4.1in.]
Compression ratio	22 : 1
Rated RPM	1500 Rpm
Piston speed	5.15m/s [16.9ft./s]
Max. standby power at rated RPM	23.87kW [32BHP]
Frequency regulation, steady state	+/-2. 5%
BMEP	6.92bar [100psi]
Governor: type	Meca

Exhaust System

Exhaust temperature	74L/s [157cfm]
Exhaust gas flow	600°C [1112°F]
Max back pressure	680mm CE [27in. WG]

Fuel System

110% (Stand by power)	6.8L/h [1.8gal/hr]
100% (of the Prime Power)	6.2L/h [1.6gal/hr]
75% (of the Prime Power)	4.7L/h [1.2gal/hr]
50% (of the Prime Power)	3.4L/h [0.9gal/hr]
Total fuel flow	36L/h [9.5gal/hr]

Oil System

Total oil capacity w/filters	6.5L [1.7gal]
Oil Pressure low idle	1bar [14.5psi]
Oil Pressure rated RPM	5bar [72.5psi]
Oil consumption 100% load	0.06L/h [0.0gal/hr]
Oil capacity carter	5.5L [1.5gal]

Thermal balance 100% load

Heat rejection to exhaust	21kW [1194Btu/mn]
Radiated heat to ambient	3kW [171Btu/mn]
Heat rejection to coolant	19kW [1080Btu/mn]

Air intake

Max. intake restriction	200mm CE [8in. WG]
Engine air flow	29L/s [61cfm]

Coolant system

Radiator & engine capacity	8.1L [2.1gal]
Max water temperature	111°C [232°F]
Outlet water temperature	93°C [199°F]
Fan power	0.8 kW
Fan air flow w/o restriction	0.8m ³ /s [1695cfm]
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90 °C

Emissions

PM	30 mg/Nm ³
CO	290 mg/Nm ³
Nox	1020 mg/Nm ³
HC	120 mg/Nm ³

Alternator Specifications

Manufacturer/Type	MECC ALTE (ECO28VL)
NUMBER OF PHASE	3
POWER FACTOR (Cos Phi)	0.8
ALTITUDE	1000
OVERSPEED	rpm
POLE: NUMBER	4
EXCITER TYPE	No
INSULATION: CLASS, TEMPERATURE RISE	H/H
VOLTAGE REGULATOR	SR7/2
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	[N/A]

Alternator Specifications Continued

BEARING: NUMBER	1
COUPLING	Direct
VOLTAGE REGULATION 0 TO 100% LOAD	[N/A]
RECOVERY TIME (20% VOLT DIP) MS	ms
SKVA WITH 90% OF NORMAL SUSTAINED VOLTAGE (AT 0.4PF)	[N/A]

Other Alternator Data

CONTINUOUS NOMINAL RATING @ 40° C	36 kVA
STANDBY RATING @ 27° C	36,3 kVA
EFFICIENCIES @ 4/4 LOAD	86.5 %
AIR FLOW	5.8m ³ /s [12289.45cfm]
SHORT CIRCUIT RATIO: 50 (K _{cc})	0.62
DIRECT AXIS SYNCHRO REACTANCE UNSATURATED (X _d)	165 %
QUADRA AXIS SYNCHRO REACTANCE UNSATURATED (X _q)	71 %
OPEN CIRCUIT TIME CONSTANT: 50 (T' _{do})	0.93 ms
DIRECT AXIS TRANSIENT REACTANCE SATURATED (X' _d)	15.4 %
SHORT CIRCUIT TRANSIENT TIME CONSTANT (T' _d)	46 ms
DIRECT AXIS SUBTRANSIENT REACTANCE SATURATED (X'' _d)	8.8 %
SUBTRANSIENT TIME CONSTANT (T'' _d)	12 ms
QUADRA AXIS SUBTRANSIENT REACTANCE SATURATED (X'' _q)	19 %
ZERO SEQUENCE REACTANCE UNSATURATED (X ₀)	2.8 %
NEGATIVE SEQUENCE REACTANCE SATURATED (X ₂)	13.2 %
ARMATURE TIME CONSTANT (T _a)	11 ms
NO LOAD EXCITATION CURRENT (i _o)	A
FULL LOAD EXCITATION CURRENT (i _c)	A
FULL LOAD EXCITATION VOLTAGE (u _c)	V
RECOVERY TIME (DELTA U = 20% TRANSITOIRE)	ms

Other Alternator Data Continued

MOTOR START (DELTA = 20% PERM. OR 50% TRANS.)	kVA
TRANSIENT DIP (4/4 CHARGE) - PF : 1.8AR	%
NO LOAD LOSSES	kW
HEAT REJECTION	kW