DIESELGENERATORS.CO.UK

Model: T25C2M
Engine: MITSUBISHI, S4S-Z263SD
Alternator: MECC ALTE, ECO32-3S

Specifications

- 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

Generator Ratings

Voltage	Power ESP kW/kVA	Power RRP kW/kVA	Standby Amps	Dimensions	Weight
240MONO	25 / 25	23 / 23	104	Length: 1700 Width: 896 Height: 1144	710kg Net 820kg Gross
230MONO	25 / 25	23 / 23	109		
220MONO	25 / 25	23 / 23	114		

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 i 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	58.6	Length: 2080 Width: 960 Height: 1415	940kg Net 1050kg Gross	100L
M127-DW	58.6	Length: 2160 Width: 966 Height: 1582	1132kg Net 1362kg Gross	230L

All units supplied with canopy as standard except when requested.

Engine Data

Manufacturer/Model	MITSUBISHI S4S-Z263SD, 4-temps, ATHMO
Cylinder arrangement	4 X L
Displacement	3.33 (C.I.)
Bore and stroke	94mm X 120mm
Compression ratio	22 : 1
Rated RPM	1500 Rpm
Piston speed	6m/s
Max. standby power at rated RPM	30.36kW
Frequency regulation (%)	<5.5
BMEP	6.63bar
Governor: type	Meca

Exhaust System

Exhaust temperature	103L/s
Exhaust gas flow	600°C
Max back pressure	680mm CE [27in. WG]

Fuel System

110% (Stand by power)	9.9L/h
100% (of the Prime Power)	8.8L/h
75% (of the Prime Power)	6.6L/h
50% (of the Prime Power)	4.8L/h
Total fuel flow	36L/h

Oil System

Total oil capacity w/filters	10L
Oil Pressure low idle	1bar [14.5psi]
Oil Pressure rated RPM	5bar [72.5psi]
Oil consumption 100% load	0.09L/h
Oil capacity carter	9L

Thermal balance 100% load

Heat rejection to exhaust	29kW
Radiated heat to ambiant	5kW
Heat rejection to coolant	29kW

Air intake

AIR INTAKE_entree_max	250%
Engine air flow	38L/s

Coolant system

Radiator & engine capacity	8.9L
Max water temperature	100°C
Outlet water temperature	93°C [199°F]
Fan power	0.7 kW
Fan air flow w/o restriction	1m3/s
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90 °C

Emissions

PM	0.14 g/kW.h
CO	0.19 g/kW.h
HCNOx	N/A g/kW.h
HC	0.01 g/kW.h

Alternator Specifications

Manufacturer/Type	MECC ALTE (ECO32-3S)
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	AVR
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]
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	40 kVA
STANDBY RATING @ 27° C	44 kVA
EFFICIENCIES @ 4/4 LOAD	87.4 %
AIR FLOW	0.196m3/s
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 %

Other Alternator Data Continued

SHORT CIRCUIT TRANSIENT TIME CONSTANT (T'd)	61 ms
DIRECT AXIS SUBTRANSIENT REACTANCE SATURATED (X'd)	10 %
SUBTRANSIENT TIME CONSTANT (T'd)	15 ms
QUADRA AXIS SUBTRANSIENT REACTANCE SATURATED (X'q)	30.6 %
ZERO SEQUENCE REACTACE UNSATURATED (Xo)	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]
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 : 1.8AR	[N/A]
NO LOAD LOSSES	[N/A]
HEAT REJECTION	[N/A]