

# T17C2M

Motor type S4Q2-Z261SD  
Alternator type ECO28VL

## GENERAL CHARACTERISTICS

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with
- 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



T17C2M : MITSUBISHI, S4Q2-Z261SD - MECC ALTE, ECO28VL

Voltage (V)	Voltage Code	Power ESP		Power PRP		Standby Amps
		kWe	kVA	kWe	kVA	
240MONO	T51M1	17	17	15	15	71
230MONO	T51M2	17	17	15	15	74
220MONO	T51M3	17	17	15	15	77

### 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.

### TERMS 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.



This product comply with the relevant European standards



This product complies with standard 2000/14/EC relating to sound levels. This compliance is tested in an approved laboratory.

## ENGINE SPECIFICATIONS

	Description	S4Q2-Z261SD
GENERAL CHARACTERISTICS	Motor model	MITSUBISHI
	Cylinder arrangement	L
	Number of cylinders	4
	Bore (mm)	88
	Stroke (mm)	103
	Displacement (C.I.)	2.51
	Compression ratio	22 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	5.15
	Maximum stand-by power at rated RPM (kW)	22.2
	Governor type	Mechanical
	Frequency regulation (%)	+/- 2.5%
	BMEP (bar)	6.48
EXHAUST	Exhaust gas flow (L/s)	74
	Exhaust gas temperature (°C)	600
	Max. exhaust back pressure (mm CE)	680
FUEL	Consumption @ 110% load (L/h)	7
	Consumption @ 100% load (L/h)	6.4
	Consumption @ 75% load (L/h)	4.8
	Consumption @ 50% load (L/h)	3.4
	Maximum fuel pump flow (L/hr)	36
OIL SYSTEM	Oil capacity (L)	6.5
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	5
	Oil consumption 100% load (L/h)	0.06
HEAT BALANCE	Carter oil capacity (L)	5.5
	Heat rejection to exhaust (kW)	21
	Radiated heat to ambient (kW)	3
AIR INTAKE	Heat rejection to coolant (kW)	20
	Intake air flow (L/s)	29
	Max. intake restriction (mm CE)	200
COOLING SYSTEM	Radiator & Engine capacity (L)	8.1
	Max water temperature (°C)	100
	Outlet water temperature (°C)	93
	Fan power (kW)	0.7
	Fan air flow w/o restriction (m3/s)	0.8
	Available restriction on air flow (mm CE)	10
	Type of coolant	Gencool
Thermostat (°C)	76.5-90	
EMISSIONS	Emission HC (g/kW.h)	0.02
	Emission Nox (g/kW.h)	0.57
	Emission CO (g/kW.h)	0.21
	Emissions PM (g/kW.h)	0.09

## ALTERNATOR SPECIFICATIONS

GENERAL CHARACTERISTICS	Description	ECO28VL
	Alternator brand	MECC ALTE
	Number of phase	3
	Altitude (m)	1000
	Overspeed (rpm)	0
	Number of pole	4
	Excitation system	NO
	Insulation class	H
	Regulation	SR7/2
	Number of bearing	1
	Coupling	Direct
Air flow (m3/s)	0.088	
POWERS	Power factor (Cos Phi)	0.8
	Continuous Nominal Rating 40°C (kVA)	30
	Standby Rating 27°C (kVA)	33
	Efficiencies 4/4 load (%)	84.8
REACTANCES (R) - TIME CONSTANT(CT)	Short circuit ratio (Kcc)	0.62
	Direct axis synchro reactance unsaturated (Xd) (%)	165
	Quadra axis synchro reactance unsaturated (Xq) (%)	71
	Open circuit time constant (T'do) (ms)	0.93
	Direct axis transient reactance saturated (X'd) (%)	15.4
	Short circuit transient time constant (T'd) (ms)	46
	Direct axis subtransient reactance saturated (X''d) (%)	8.8
	Subtransient time constant (T''d) (ms)	12
	Quadra axis subtransient reactance saturated (X''q)	19
	Zero sequence reactance unsaturated (Xo) (%)	2.8
	Negative sequence reactance saturated (X2) (%)	13.2
Armature time constant (Ta) (ms)	11	
OTHER CHARACTERISTICS	No load excitation current (io) (A)	0
	Full load excitation current (ic) (A)	0
	Full load excitation voltage (uc) (V)	0
	Motor start (Delta U = 20% perm. or 50% trans.)	0
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	0
	No load losses (W)	0
	Heat rejection (W)	0

## DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION	Length (mm)	1700
	Width (mm)	896
	Height (mm)	1121
	Tank capacity (L)	100
	Dry weight (kg)	580
DIMENSIONS CANOPIED VERSION	Canopy	M127
	Length (mm).	2080
	Width (mm).	960
	Height (mm).	1415
	Tank capacity (L).	100
	Dry weight (kg).	810
NOISE LEVEL	dB(A) @1m (50Hz)	71
	dB(A) @7m (50Hz)	61
	dB(A) @15m (50Hz)	57
	LWa (50Hz)	87

## CONTAINMENT

DIMENSIONS COMPACT VERSION	Length (mm)	2160
	Width (mm)	966
	Height (mm)	1288
	Tank capacity (L)	230
	Dry weight (kg)	772
DIMENSIONS CANOPIED VERSION	Canopy	M127 DW
	Length (mm).	2160
	Width (mm).	966
	Height (mm).	1582
	Tank capacity (L).	230
	Dry weight (kg).	991
NOISE LEVEL	dB(A) @1m (50Hz)	71
	dB(A) @7m (50Hz)	61
	dB(A) @15m (50Hz)	57
	LWa (50Hz)	87

### DESCRIPTION OF STANDARD CONTROL PANEL



The NEXYS is a versatile control unit allowing operation in manual or automatic mode. Equipped with an LCD screen, the user-friendly NEXYS offers high-quality basic functions to guarantee simple, reliable operation of your generating set.

#### Offers the following functions:

Standard electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, engine speed, battery voltage, fuel level.

### DESCRIPTION OF CONTROL PANEL AS OPTION



The highly versatile TELYS control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

#### The TELYS offers the following functions:

Electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, oil pressure,