

# T33K

Engine MITSUBISHI , S4S-SD  
Alternator MECC ALTE , ECO28VL

## STANDARD FEATURES

- 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



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	25 / 31	23 / 28	43		
400/230	26 / 33	24 / 30	48	Leng : 1700mm [67in]	660kg [1455lbs] Net
380/220	26 / 33	24 / 30	50	Widt : 896mm [35in]	760kg [1676lbs] Gross
240 TRI	26 / 33	24 / 30	79	Heig : 1144mm [45in]	
230 TRI	26 / 33	24 / 30	83		
220 TRI	26 / 33	24 / 30	87		
200/115	26 / 33	24 / 30	95		



### 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.

### TERM OF USE

Standard reference conditions ESP/PRP 25 C°/25 C° Air Intlet Temp, 100 m/100 m m A.S.L. 60 % relative humidity.

Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
 M127-DW	73	63	Leng : 2160mm [85in] Widt : 966mm [38in] Heig : 1582mm [62in]	1066kg [2350lbs] 1296kg [2857lbs]	230 L
 M127	73	63	Leng : 2080mm [82in] Widt : 960mm [38in] Heig : 1415mm [56in]	890kg [1962lbs] 990kg [2183lbs]	100 L

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## ENGINE SPECIFICATIONS

<b>DATA</b>  <b>GENERAL DATA</b>	Motor model	mitsubishi S4S-SD , 4-temps, ATHMO , N/A 4 X
	Cylinder arrangement	L
	Displacement (C.l.)	3.33
	Bore (mm) X Stroke (mm)	94 X 120
	Compression ratio	22 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	6
	Maximum stand-by power at rated RPM (kW)	30.36
	Frequency regulation (%)	<5
	BMEP (bar)	6.63
Governor type	MECA	
<b>EXHAUST SYSTEM</b>	Exhaust gas temperature (°F)	600
	Exhaust gas flow (L/s)	103
	Max. exhaust back pressure (mm CE)	680
<b>FUEL SYSTEM</b>	Consumption @ 110% load (L/h)	9.9
	Consumption @ 100% load (L/h)	8.2
	Consumption @ 75% load (L/h)	6
	Consumption @ 50% load (L/h)	4.2
	Maximum fuel pump flow (L/hr)	36
<b>OIL</b>	Oil capacity (L)	10
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	5
	Oil consumption 100% load (L/h)	0.09
	Carter oil capacity (L)	9
<b>THERMAL BALANCE</b>	Heat rejection to exhaust (kW)	29
	Radiated heat to ambient (kW)	5
	Haet rejection to coolant (kW)	29
<b>AIR INTAKE</b>	AIR INTAKE_entree_max%	250
	Intake air flow (L/s)	38
<b>COOLANT SYSTEM</b>	Radiator & Engine capacity (L)	8.9
	Max water temperature (°C)	100
	Outlet water temperature (°C)	93
	Fan power (kW)	0.7
	Fan air flow w/o restriction (m3/s)	1
	Available restriction on air flow (mm CE)	10
	Type of coolant	GENCOOL
	Thermostat (°C)	76.5-90
<b>EMISSIONS</b>	Emissions PM (g/kW.h)	N/A
	Emission CO (g/kW.h)	N/A
	Emissions HCNOx (g/kWh)	N/A
	Emission HC (g/kW.h)	N/A

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## ALTERNATOR SPECIFICATIONS

<b>DATA</b> <b>GENERAL DATA</b>	Alternator brand	MECC ALTE
	Alternator	ECO28VL
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	1000
	Overspeed (rpm)	N/A
	Number of pole	4
	Excitation system	NO
	Insulation class / Temperature class	H / H
	Regulation	SR7/2
	Total harmonics TGH/THC	N/A
	Wave form : NEMA=TIF-TGH/THC	N/A
	Wave form : CEI=FHT-TGH/THC	N/A
	Number of bearing	1
	Coupling	DIRECT
	Voltage regulation 0 à 100%	N/A
	Recovery time (Delta U = 20% transitoire) (ms)	N/A
<b>OTHER</b> <b>DATA</b>	Continuous Nominal Rating 40°C (kVA)	30
	Standby Rating 27°C (kVA)	33
	Efficiencies 4/4 load (%)	84.8
	Air flow (m3/s)	0.088
	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
	No load excitation current (io) (ms)	N/A
	Full load excitation current (ic) (A)	N/A
	Full load excitation voltage (uc) (A)	N/A
	Recovery time (Delta U = 20% transitoire) (ms)	N/A
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	N/A
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	N/A
No load losses (kW)	N/A	
Heat rejection (kW)	N/A	

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## CONTROL PANEL

### Standard



### NEXYS

#### 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

#### 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