

T12K

Engine MITSUBISHI , S3L2-SD
Alternator MECC ALTE , ECO3-1L

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	9.2 / 11.5	8.4 / 10.5	16		
400/230	9.2 / 11.5	8.4 / 10.5	17	Leng : 1405mm [55in]	387kg [853lbs] Net
380/220	9.2 / 11.5	8.4 / 10.5	17	Widt : 715mm [28in]	438kg [966lbs] Gross
240 TRI	9.2 / 11.5	8.4 / 10.5	28	Heig : 1053mm [41in]	
230 TRI	9.2 / 11.5	8.4 / 10.5	29		
220 TRI	9.2 / 11.5	8.4 / 10.5	30		
220/127	7.6 / 9.5	6.9 / 8.6	25		
200/115	9.2 / 11.5	8.4 / 10.5	33		



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
	M126-DW	70.4	60.4	Leng : 1797mm [71in] Widt : 775mm [31in] Heig : 1391mm [55in]	615kg [1356lbs] 705kg [1554lbs]	93 L
	M126	70.4	60.4	Leng : 1750mm [69in] Widt : 775mm [31in] Heig : 1230mm [48in]	535kg [1179lbs] 586kg [1292lbs]	50 L



ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	mitsubishi S3L2-SD , 4-temps, ATHMO , N/A 3
		X
	Cylinder arrangement	L
	Displacement (C.l.)	1.32
	Bore (mm) X Stroke (mm)	78 X 92
	Compression ratio	22 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	4.6
	Maximum stand-by power at rated RPM (kW)	11.33
	Frequency regulation (%)	2.5
	BMEP (bar)	6.25
Governor type	MECA	
EXHAUST SYSTEM	Exhaust gas temperature (°F)	400
	Exhaust gas flow (L/s)	36.5
	Max. exhaust back pressure (mm CE)	700
FUEL SYSTEM	Consumption @ 110% load (L/h)	N/A
	Consumption @ 100% load (L/h)	3.1
	Consumption @ 75% load (L/h)	2.5
	Consumption @ 50% load (L/h)	2.1
	Maximum fuel pump flow (L/hr)	18
OIL	Oil capacity (L)	4.2
	Min. oil pressure (bar)	0.5
	Max. oil pressure (bar)	4
	Oil consumption 100% load (L/h)	0.018
	Carter oil capacity (L)	3.7
THERMAL BALANCE	Heat rejection to exhaust (kW)	10
	Radiated heat to ambient (kW)	1
	Heat rejection to coolant (kW)	9.8
AIR INTAKE	AIR INTAKE_entree_max%	200
	Intake air flow (L/s)	13.6
COOLANT SYSTEM	Radiator & Engine capacity (L)	4.2
	Max water temperature (°C)	111
	Outlet water temperature (°C)	93
	Fan power (kW)	0.3
	Fan air flow w/o restriction (m3/s)	0.5
	Available restriction on air flow (mm CE)	10
	Type of coolant	GENCOOL
	Thermostat (°C)	82-95
EMISSIONS	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

DATA GENERAL DATA	Alternator brand	MECC ALTE
	Alternator	ECO3-1L
	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
OTHER DATA	Continuous Nominal Rating 40°C (kVA)	11
	Standby Rating 27°C (kVA)	12
	Efficiencies 4/4 load (%)	85.5
	Air flow (m3/s)	0.055
	Short circuit ratio (Kcc)	0.85
	Direct axis synchro reactance unsaturated (Xd) (%)	222
	Quadra axis synchro reactance unsaturated (Xq) (%)	71
	Open circuit time constant (T'do) (ms)	0.82
	Direct axis transient reactance saturated (X'd) (%)	22.2
	Short circuit transient time constant (T'd) (ms)	38
	Direct axis subtransient reactance saturated (X''d) (%)	15.7
	Subtransient time constant (T''d) (ms)	14
	Quadra axis subtransient reactance saturated (X''q) (%)	82.5
	Zero sequence reactance unsaturated (Xo) (%)	6.2
	Negative sequence reactance saturated (X2) (%)	18.9
	Armature time constant (Ta) (ms)	48
	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