

T44K

Engine MITSUBISHI , S4S-DT
Alternator MECC ALTE , ECO32-3S

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	35 / 44	32 / 40	61		
400/230	35 / 44	32 / 40	64	Leng : 1700mm [67in]	680kg [1499lbs] Net
380/220	35 / 44	32 / 40	67	Widt : 896mm [35in]	790kg [1742lbs] Gross
240 TRI	35 / 44	32 / 40	106	Heig : 1223mm [48in]	
230 TRI	35 / 44	32 / 40	110		
220 TRI	35 / 44	32 / 40	115		
220/127	28 / 35	25 / 32	92		
200/115	35 / 44	32 / 40	127		



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	71.1	61.1	Leng : 2160mm [85in] Widt : 966mm [38in] Heig : 1582mm [62in]	1100kg [2425lbs] 1330kg [2932lbs]	230 L
	M127	71.1	61.1	Leng : 2080mm [82in] Widt : 960mm [38in] Heig : 1415mm [56in]	920kg [2028lbs] 1020kg [2249lbs]	100 L

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	MITSUBISHI S4S-DT , 4-temps, TURBO , N/A 4 X
	Cylinder arrangement	L
	Displacement (C.l.)	3.33
	Bore (mm) X Stroke (mm)	94 X 120
	Compression ratio	17 : 1
	Speed (RPM)	1500
	Pistons speed (m/s)	6
	Maximum stand-by power at rated RPM (kW)	40.5
	Frequency regulation (%)	<5
	BMEP (bar)	8.84
Governor type	MECA	
EXHAUST SYSTEM	Exhaust gas temperature (°F)	550
	Exhaust gas flow (L/s)	120
	Max. exhaust back pressure (mm CE)	680
FUEL SYSTEM	Consumption @ 110% load (L/h)	10.9
	Consumption @ 100% load (L/h)	9.6
	Consumption @ 75% load (L/h)	7.3
	Consumption @ 50% load (L/h)	5.1
	Maximum fuel pump flow (L/hr)	36
OIL	Oil capacity (L)	10
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	5
	Oil consumption 100% load (L/h)	0.12
	Carter oil capacity (L)	9
THERMAL BALANCE	Heat rejection to exhaust (kW)	39
	Radiated heat to ambient (kW)	6
	Haet rejection to coolant (kW)	31.7
AIR INTAKE	AIR INTAKE_entree_max%	250
	Intake air flow (L/s)	45
COOLANT SYSTEM	Radiator & Engine capacity (L)	9.5
	Max water temperature (°C)	100
	Outlet water temperature (°C)	93
	Fan power (kW)	0.7
	Fan air flow w/o restriction (m3/s)	1.1
	Available restriction on air flow (mm CE)	10
	Type of coolant	GENCOOL
	Thermostat (°C)	76.5-90
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	ECO32-3S
	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	AVR
	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)
Standby Rating 27°C (kVA)		44
Efficiencies 4/4 load (%)		87.4
Air flow (m3/s)		0.196
Short circuit ratio (Kcc)		0.8
Direct axis synchro reactance unsaturated (Xd) (%)		190
Quadra axis synchro reactance unsaturated (Xq) (%)		98
Open circuit time constant (T'do) (ms)		1.4
Direct axis transient reactance saturated (X'd) (%)		14.3
Short circuit transient time constant (T'd) (ms)		61
Direct axis subtransient reactance saturated (X''d) (%)		10
Subtransient time constant (T''d) (ms)		15
Quadra axis subtransient reactance saturated (X''q) (%)		30.6
Zero sequence reactance unsaturated (Xo) (%)		2.7
Negative sequence reactance saturated (X2) (%)		21.5
Armature time constant (Ta) (ms)		31
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