

T30U

Engine MITSUBISHI , S4S-SD
Alternator MECC ALTE , ECO28VL

STANDARD FEATURES

- Mechanical governor
- Mechanically welded chassis with antivibration suspension
- Power circuit breaker
- Radiator for wiring T° of 50°C [122°F] max with mechanical fan
- Protective grille for fan and rotating parts
- 9dB(A) silencer supplied separately
- Charged DC starting battery with electrolyte
- 12 V charging alternator and starter
- Supplied with oil and coolant -30°C
- User manual and commissioning guide



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
480/277	30 / 38	27 / 34	46	Length: 1700mm [67in] Width: 896mm [35in] Height: 1144mm [45in]	660kg [1455 lbs] Net 760kg [1676 lbs] Gross
440/254	30 / 38	27 / 34	50		
240/120	29 / 36	26 / 33	87		
230/115	26 / 33	24 / 30	83		
220/127	30 / 38	27 / 34	100		
208/120	29 / 36	26 / 33	100		

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. A 10% overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046-1 –

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 25 °C Air Intlet Temp, 100 m A.S.L. 60 % relative humidity. All engine performance data based on the above mentioned maximum continuous ratings.

Type	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
 M127	76	66.3	Length: 2080mm [82in] Width: 960mm [38in] Height: 1415mm [56in]	890kg [1962lbs] Net 990kg [2183lbs] Gross	100 L
 M127-DW	76	66.3	Length: 2160mm [85in] Width: 966mm [38in] Height: 1582mm [62in]	1066kg [2350lbs] Net 1296kg [2857lbs] Gross	230 L





ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	MITSUBISHI S4S-SD , 4-strokes, Athmo , [N/A] 4 X
	Cylinder Arrangement	L
	Displacement	3.33L [203.2C.I.]
	Bore and Stroke	94mm [3.7in.] X 120mm [4.7in.]
	Compression ratio	22 : 1
	Rated RPM	1800 Rpm
	Piston Speed	7.2m/s [23.6ft./s]
	Max. stand by Power at rated RPM	35.4kW [47BHP]
	Frequency regulation, steady state	< 5%
	BMEP	7.28bar [105psi]
Governor : type	MECA	
EXHAUST SYSTEM	Exhaust temperature	600°C [1112°F]
	Exhaust gas flow	122L/s [259cfm]
	Max back pressure	680mm CE [27in. WG]
FUEL SYSTEM	110% (Stand By power)	11.5L/h [3.0gal/hr]
	100% (of the Prime Power)	9.8L/h [2.6gal/hr]
	75% (of the Prime Power)	8.2L/h [2.2gal/hr]
	50% (of the Prime Power)	6L/h [1.6gal/hr]
	Max. fuel pump flow	36L/h [9.5gal/hr]
OIL SYSTEM	Total oil capacity w/filters	10L [2.6gal]
	Oil Pressure low idle	1bar [14.5psi]
	Oil Pressure rated RPM	5bar [72.5psi]
	Oil consumption 100% load	0.11L/h [0.029gal/hr]
	Oil capacity carter	9L [2.4gal]
THERMAL BALANCE	Heat rejection to exhaust	35kW [1990Btu/mn]
	Radiated heat to ambient	6kW [341Btu/mn]
	Heat rejection to coolant	35kW [1990Btu/mn]
AIR INTAKE	Max. intake restriction	200mm CE [8in. WG]
	Engine air flow	45L/s [95cfm]
COOLANT SYSTEM	Radiator & engine capacity	8.9L [2.4gal]
	Max water temperature	100°C [212°F]
	Outlet water temperature	93°C [199°F]
	Fan power	1.5 kW
	Fan air flow w/o restriction	1m ³ /s [2119cfm]
	Available restriction on air flow	10mm CE [0.4in. WG]
	Type of coolant	Gencool
	Thermostat	76.5-90 °C
EMISSIONS LEVEL	PM	N/A
	CO	N/A
	Nox	N/A
	HC	N/A

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ALTERNATOR SPECIFICATIONS

GENERAL DATAS	Manufacturer	MECC ALTE
	Type	ECO28VL
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	1000
	Overspeed	[N/A]
	Pole : number	4
	Exciter type	NO
	Insulation : class, temperature rise	H / H
	Voltage regulator	SR7/2
	Total harmonics (TGH/THC)	[N/A]
	Wave form : NEMA = TIF – TGH/THC	[N/A]
	Wave form : CEI = FHT – TGH/THC	2
	Bearing : number	1
	Coupling	Direct
	Voltage regulation 0 to 100% load	[N/A]
Recovery time (20% Volt dip) ms	[N/A]	
SKVA with 90% of nominal sustained voltage (at 0.4PF)	N/A	
OTHER DATAS	Continuous nominal rating @ 40°C	36 kVA
	Standby rating @ 27°C	36.3 kVA
	Efficiencies @ 4/4 load	86.5 %
	Air flow	0.096m ³ /s [203.41cfm]
	Short circuit ratio;50 (Kcc)	0.62
	Direct axis synchro reactance unsaturated (Xd)	165 %
	Quadra axis synchro reactance unsaturated (Xq)	71 %
	Open circuit time constant;50 (T'do)	0.93 ms
	Direct axis transient reactance saturated (X'd)	15.4 %
	Short circuit transient time constant (T'd)	46 ms
	Direct axis subtransient reactance saturated (X''d)	8.8 %
	Subtransient time constant (T''d)	12 ms
	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)	11 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 : 1.8 AR	[N/A]
No load losses	[N/A]	
Heat rejection	[N/A]	



CONTROL PANEL

Standard



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

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

