



T16UC2

Engine MITSUBISHI , S4L2.Y262SD Tiers 2
 Alternator MECC ALTE , ECO3-3LN

STANDARD FEATURES

- Mechanical governor
- Mechanically welded chassis with vibration isolators
- Main line circuit breaker
- Radiator for wiring T° of 50°C [122°F] max with mechanical fan
- 9dB(A) silencer supplied separately
- Charged DC starting battery with electrolyte + cables
- 12 V charging alternator and starter
- Fuel Tank integrated into the chassis (except UL2200 models)
- Digital Control panel compliant with EC and UL standard
- Supplied with oil and coolant -30°C



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
480/277	16 / 20	15 / 18	24	Length: 1405mm [55in] Width: 715mm [28in] Height: 1053mm [41in]	406kg [895lbs] Net 460kg [1014lbs] Gross
440/254	16 / 20	15 / 18	26		
240/120	14 / 17	12 / 15	41		
230/115	13 / 16	12 / 15	40		
220/127	16 / 20	15 / 18	52		
208/120	14 / 17	12 / 15	47		

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 Inlet 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
M126	74	64	Length: 1750mm [69in]	554kg [1221lbs] Net	50 L
			Width: 715mm [28in] Height: 1230mm [48in]	608kg [1340lbs] Gross	





ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	MITSUBISHI S4L2.Y262SD , 4-strokes, Athmo , N/A 4 X
	Cylinder Arrangement	L
	Displacement	1.75L [106.8C.I.]
	Bore and Stroke	78mm [3.1in.] X 92mm [3.6in.]
	Compression ratio	22 : 1
	Rated RPM	1800 Rpm
	Piston Speed	5.52m/s [18.1ft./s]
	Max. stand by Power at rated RPM	19.58kW [26BHP]
	Frequency regulation, steady state	+/-2. 5%
	BMEP	6.74bar [98psi]
Governor : type	Meca	
EXHAUST SYSTEM	Exhaust temperature	430°C [806°F]
	Exhaust gas flow	58.3L/s [124cfm]
	Max back pressure	700mm CE [28in. WG]
FUEL SYSTEM	110% (Stand By power)	N/A
	100% (of the Prime Power)	5.3L/h [1.4gal/hr]
	75% (of the Prime Power)	4.2L/h [1.1gal/hr]
	50% (of the Prime Power)	3.3L/h [0.9gal/hr]
	Max. fuel pump flow	18L/h [4.8gal/hr]
OIL SYSTEM	Total oil capacity w/filters	5.9L [1.6gal]
	Oil Pressure low idle	1bar [14.5psi]
	Oil Pressure rated RPM	4bar [58.0psi]
	Oil consumption 100% load	0.03L/h [0.0gal/hr]
	Oil capacity carter	5.4L [1.4gal]
THERMAL BALANCE	Heat rejection to exhaust	16kW [910Btu/mn]
	Radiated heat to ambient	2.5kW [142Btu/mn]
	Heat rejection to coolant	17kW [967Btu/mn]
AIR INTAKE	Max. intake restriction	200mm CE [8in. WG]
	Engine air flow	21.7L/s [46cfm]
COOLANT SYSTEM	Radiator & engine capacity	4.9L [1.3gal]
	Max water temperature	111°C [232°F]
	Outlet water temperature	93°C [199°F]
	Fan power	0.9 kW
	Fan air flow w/o restriction	0.9m3/s [1907cfm]
	Available restriction on air flow	10mm CE [0.4in. WG]
	Type of coolant	Gencool
	Thermostat	82-95 °C
EMISSIONS LEVEL	PM	N/A
	CO	N/A
	Nox	N/A
	HC	N/A



ALTERNATOR SPECIFICATIONS

GENERAL DATAS	Manufacturer / Type	MECC ALTE ECO3-3LN
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude	1000
	Overspeed	[N/A]
	Pole : number	2
	Exciter type	No
	Insulation : class, temperature rise	H / H
	Voltage regulator	SR7/2
	Sustained short circuit current	[N/A] C
	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	22.8 kVA
	Standby rating @ 27°C	23 kVA
	Efficiencies @ 4/4 load	86.7 %
	Air flow	3.5m ³ /s [7416.05cfm]
	Short circuit ratio;50 (Kcc)	1.1
	Direct axis synchro reactance unsaturated (Xd)	140 %
	Quadra axis synchro reactance unsaturated (Xq)	78 %
	Open circuit time constant;50 (T'do)	0.84 ms
	Direct axis transient reactance saturated (X'd)	14.2 %
	Short circuit transient time constant (T'd)	42 ms
	Direct axis subtransient reactance saturated (X''d)	9.8 %
	Subtransient time constant (T''d)	10.5 ms
	Quadra axis subtransient reactance saturated (X''q)	52 %
	Zero sequence reactance unsaturated (Xo)	5.4 %
	Negative sequence reactance saturated (X2)	17.1 %
	Armature time constant (Ta)	[N/A]
	No load excitation current (io)	[N/A]
	Full load excitation current (ic)	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

