



ENGINE DATA

Manufacturer / Model	MITSUBISHI S4S.Y262SD , 4-cycle, Athmo , N/A
Cylinder Arrangement	4 X 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	40.04kW [54BHP]
Frequency regulation, steady state	+/-2. 5%
BMEP	7.28bar [105psi]
Governor : type	Meca/Mechanical

Exhaust System

Exhaust gas flow	122L/s [259cfm]
Exhaust temperature	600°C [1112°F]
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]
Total fuel 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 [0.0gal/hr]
Oil capacity carter	9L [2.4gal]

Thermal balance 100% load

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	111°C [232°F]
Outlet water temperature	93°C [199°F]
Fan power	1.5 kW
Fan air flow	1m3/s [2119cfm]
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	76.5-90 °C

Emissions

HC	N/A
CO	N/A
Nox	N/A
PM	N/A



ALTERNATOR SPECIFICATIONS

GENERAL DATA

- Compliance with NEMA MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards.
- Vacuum-impregnated windings with epoxy varnish.
- IP21 drip proof.

ALTERNATOR DATA

	MECC ALTE ECO28VL
Manufacturer / Type	
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude	1000
Overspeed	rpm
Pole : number	4
Exciter type	No
Insulation : class, temperature rise	H / H
Voltage regulator	SR7/2
Sustained short circuit current	
Total harmonics (TGH/THC)	
Wave form : NEMA = TIF – TGH/THC	
Wave form : CEI = FHT – TGH/THC	
Bearing : number	1
Coupling	Direct
Voltage regulation 0 to 100% load	
Recovery time (20% Volt dip) ms	ms
SkVA with 90 % of nominal sustained voltage (at 0.4 PF)	N/A

OTHER ALTERNATOR DATA

Continuous nominal rating @ 40°C	36 kVA
Standby rating @ 27°C	36.3 kVA
Efficiencies @ 4/4 load	86.5 %
Air flow	5.8m ³ /s [12289.45cfm]
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)	A
Full load excitation current (ic)	A
Full load excitation voltage (uc)	V
Recovery time (Delta U = 20% transitoire)	ms
Motor start (Delta = 20% perm. Or 50% trans.)	kVA
Transient dip (4/4 charge) – PF : 1.8 AR	%
No load losses	kW
Heat rejection	kW

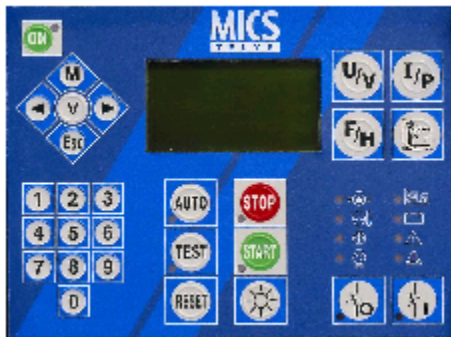
Control Panels

NEXYS



Specifications :Frequency meter, Ammeter, Voltmeter
Alarms and faults Oil pressure, water temperature, Overcrank,
Overspeed, Min/max alternator, Low fuel level, Emergency stop Engine
parameters Hours counter, Engine speed, Battery voltage, Fuel level, Air
preheating

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

Options

Engine and Radiator

- Heat shield protection
- Oil drain extension
- Heavy duty air filter
- Lube oil drain pump
- Radiator core guard
- Battery charger
- Block heater

Alternator

- Anti condensation heater
- Enforced impregnation
- Oversized alternator

Control panel

- NFPA 110 level 1
- Paralleling system
- Remote annunciator
- Oil temperature shutdown
- Key start panel

Exhaust

- Residential silencer
- Critical silencer
- Flexible exhaust conn.

Literature

- Parts
- Maintenance

Fuel

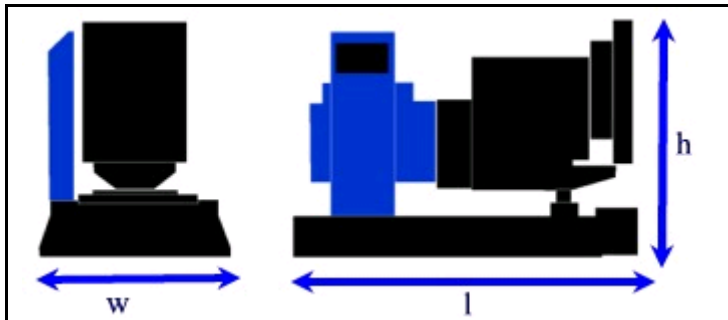
- Day tank
- Subbase fuel tanks UL
- Water separator fuel filter

Enclosure M107

- Silent 70 db @ 23 Ft (stby)

Weight and Dimensions

Open Model



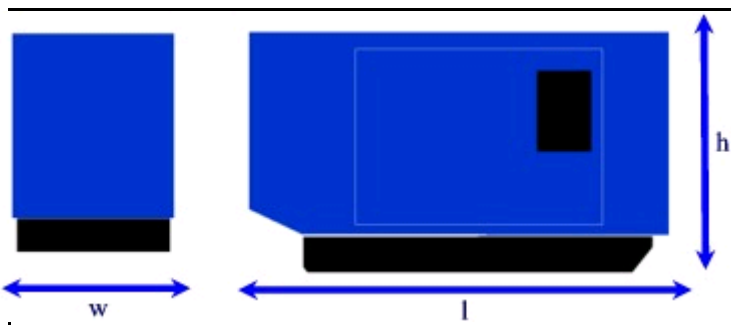
Overall size l x w x h :

1515mm [60in] x 780mm [31in] x 1120mm [44in]

Weight :

600kg [1322lbs] Net 710kg [1565lbs] Brut

With Optional Enclosure



Overall size l x w x h :

2100mm [83in] x 920mm [36in] x 1445mm [57in]

Weight :

975kg [2149lbs] Net 1085kg [2391lbs] Brut