



T11UCM

DIESEL GENSET

MODEL	T11UCM
Stand-by Power @ 60Hz	10kW / 10 kVA
Prime Power @ 60Hz	9 kW / 9 kVA

Standard Features

General features :

- Engine (MITSUBISHI , S3L2.W262SD)
- Engine EPA Carb Charge alternator 12 V , Governor:Meca
- Alternator (MECC ALTE , ECO28S)
- Single bearing alternator IP 23 , insulation class H /H
- Radiator 50°C [122°F]°C max. T° air inlet with coolant cap
- Skid and vibration isolators
- Dry type air filter
- Main line circuit breaker
- Microprocessor control panel
- 12 V battery, rack and cable
- Industrial silencer (loose)
- User manual ^pCSA Certified (consult us)



Generator Ratings

Voltage	HZ	Phase	P.F	Standby Amps	Standby Ratings kW/kVA	Prime Ratings kW/kVA
240MONO	60	1	1	42	10 / 10	9 / 9

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.

Conditions of sale

- SDMO provides a full line of products with high quality recognized engines and alternators.
- Service and parts are available from SDMO distributors as a single source of responsibility.
- Each and every units is factory tested. All generator sets are also prototype tested.
- Warranty according to our standard conditions. Five years extended also available



ENGINE DATA

Manufacturer / Model	MITSUBISHI S3L2.W262SD , 4-cycle, Athmo , N/A
Cylinder Arrangement	3 X L
Displacement	1.31L [79.9C.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	13.86kW [19BHP]
Frequency regulation, steady state	+/-2. 5%
BMEP	6.36bar [92psi]
Governor : type	Meca

Exhaust System

Exhaust gas flow	43.9L/s [93cfm]
Exhaust temperature	400°C [752°F]
Max back pressure	700mm CE [28in. WG]

Fuel System

110% (Stand By power)	N/A
100% (of the Prime Power)	4L/h [1.1gal/hr]
75% (of the Prime Power)	3.2L/h [0.8gal/hr]
50% (of the Prime Power)	2.5L/h [0.7gal/hr]
Total fuel flow	18L/h [4.8gal/hr]

Oil System

Total oil capacity w/filters	4.2L [1.1gal]
Oil Pressure low idle	1bar [14.5psi]
Oil Pressure rated RPM	4bar [58.0psi]
Oil consumption 100% load	0.022L/h [0.0gal/hr]
Oil capacity carter	3.7L [1.0gal]

Thermal balance 100% load

Heat rejection to exhaust	12kW [682Btu/mn]
Radiated heat to ambient	1.5kW [85Btu/mn]
Heat rejection to coolant	12.2kW [694Btu/mn]

Air intake

Max. intake restriction	200mm CE [8in. WG]
Engine air flow	16.4L/s [35cfm]

Coolant System

Radiator & engine capacity	4.2L [1.1gal]
Max water temperature	111°C [232°F]
Outlet water temperature	93°C [199°F]
Fan power	0.4 kW
Fan air flow	0.7m3/s [1483cfm]
Available restriction on air flow	10mm CE [0.4in. WG]
Type of coolant	Gencool
Thermostat	82-95 °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 ECO28S
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	AVR
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

	kVA
Continuous nominal rating @ 40°C	
Standby rating @ 27°C	20 kVA
Efficiencies @ 4/4 load	83.3 %
Air flow	5.5m ³ /s [11653.79cfm]
Short circuit ratio;50 (Kcc)	0.67
Direct axis synchro reactance unsaturated (Xd)	196 %
Quadra axis synchro reactance unsaturated (Xq)	72 %
Open circuit time constant;50 (T'do)	0.9 ms
Direct axis transient reactance saturated (X'd)	16.9 %
Short circuit transient time constant (T'd)	0.051 ms
Direct axis subtransient reactance saturated (X''d)	11.5 %
Subtransient time constant (T''d)	0.018 ms
Quadra axis subtransient reactance saturated (X''q)	24 %
Zero sequence reactance unsaturated (Xo)	3.6 %
Negative sequence reactance saturated (X2)	17 %
Armature time constant (Ta)	0.016 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 (>60 kVA), Min/max alternator, Low fuel level, Emergency stop
- Engine parameters Hours counter, Engine speed, Battery voltage, Fuel level, Air preheating

TELYS



Specifications :

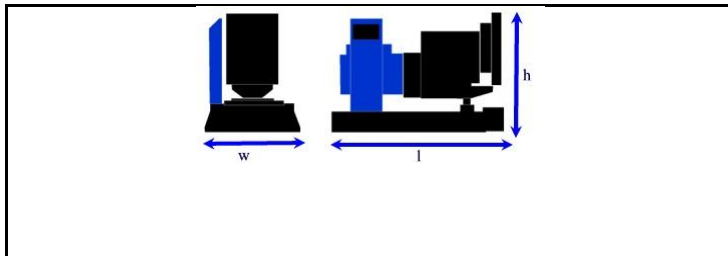
- Frequency meter, Ammeter, Voltmeter
- Alarms and faults Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop
- Engine parameters Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

Options

<p>Engine and Radiator</p> <ul style="list-style-type: none"> • Heat shield protection • Oil drain extension • Heavy duty air filter • Lube oil drain pump • Radiator core guard • Battery charger • Block heater 	<p>Alternator</p> <ul style="list-style-type: none"> • Anti condensation heater • Enforced impregnation • Oversized alternator 	<p>Control panel</p> <ul style="list-style-type: none"> • • NFPA 110 level 1 • • Paralleling system • • Remote annunciator • • Oil temperature shutdown • Key start panel
	<p>Exhaust</p> <ul style="list-style-type: none"> • Residential silencer • Critical silencer • Flexible exhaust conn. 	<p>Literature</p> <ul style="list-style-type: none"> • • Parts • • Maintenance
<p>Fuel</p> <ul style="list-style-type: none"> • Day tank • Subbase fuel tanks UL • Water separator fuel filter 	<p>Enclosure</p> <ul style="list-style-type: none"> • M126 • Silent 62.5 db @ 7m [23 Ft] (stby) 	

Weight and Dimensions

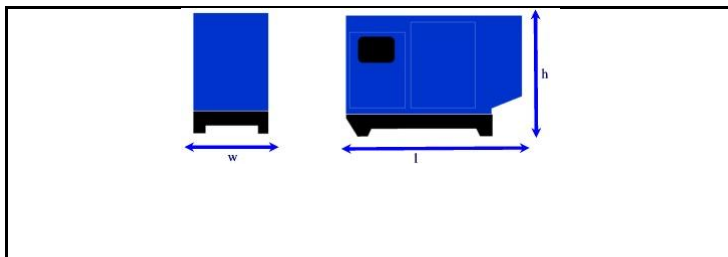
Open Model Excluding option



Overall size l x w x h :
1405mm [55in] x 715mm [28in] x 1053mm [41in]

Weight :
417kg [919lbs] Net 468kg [1031lbs] Brut

With Optional Enclosure



Overall size l x w x h :
1750mm [69in] x 715mm [28in] x 1230mm [48in]

Weight :
565kg [1245lbs] Net 616kg [1358lbs] Brut