

# MODEL : TM30UC DIESEL

**30KW / 38KVA**  
**Stand-by Power @ 60Hz**

**28KW / 35KVA**  
**Prime Power @ 60Hz**



### Standard Features :

- Engine EPA/CARB, electric starter, charge alternator 12V , mech. Gov.
- Single bearing alternator IP21, insulation class H/H
- Radiator 50°C (122°F) max. T° air inlet with coolant cap
- Skid and vibration isolators
- Dry type air filter
- Microprocessor controller
- Main line circuit breaker
- 12V battery, rack and cable
- Industrial silencer (loose)
- User manual

- SDMO provides a full line of products with high quality recognized engines and alternators.
- Microprocessor Digital Control Panel is equipped as standard on all models. Options are available which meet most applications.
- Generators sets provide one-step load acceptance as per NFPA 110.
- Each and every units is factory tested. All generator sets are also prototype tested.
- A one year limited warranty covers all systems and components. Two and five years extended are also available.
- Service and parts are available from SDMO distributors as a single source of responsibility.

## GENERATOR RATINGS

Voltage	Hz	Phase	P.F	Standby Amps	Standby Ratings KW/KVA	Prime Ratings KW/KVA
480/277V	60	3	0.8	46	30 / 38	28 / 35
440/254V	60	3	0.8	50	30 / 38	28 / 35
220/127V	60	3	0.8	100	30 / 38	28 / 35
208/120V	60	3	0.8	105	30 / 38	28 / 35

Stand-By ratings are continuous for the duration of any power outage. No overload capacity is specified at this ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO-3046 and IEC 34-1 with 10% overload capacity one hour in twelve hours.

## ENGINE DATA


<p>Manufacturer :</p> <p>Model :</p> <p>Cylinder Arrangement :</p> <p>Displacement :</p> <p>Bore and Stroke :</p> <p>Compression ratio :</p> <p>Rated RPM :</p> <p>Piston Speed :</p> <p>Max. Power at rated RPM :</p> <p>Frequency regulation, no load to full load :</p> <p>Frequency regulation, steady state :</p> <p>BMEP :</p> <p>Governor : type, make</p>	<p><b>mitsubishi</b></p> <p>S4SY162SD , 4-cycle, Athmo , NC</p> <p>4 X L</p> <p>3.33 L (203.2 C.I.)</p> <p>94 mm (3.7 in.)X 120 mm (4.7 in.)</p> <p>22 : 1</p> <p>1800 Rpm</p> <p>7.2 m/s (23.6 ft./s)</p> <p>40.04 kW (54 BHP)</p> <p>3-5 %</p> <p>0.33 %</p> <p>7.28 bar (105 psi)</p> <p>Mechanical, GAC</p>		
<p><b>Exhaust System</b></p> <p>Exhaust gas flow</p> <p>Exhaust temperature</p> <p>Max back pressure</p> <p><b>Fuel System</b></p> <p>100%</p> <p>75%</p> <p>50%</p> <p>25%</p> <p>Total fuel flow</p> <p><b>Oil System</b></p> <p>Total oil capacity w/filters</p> <p>Oil Pressure low idle</p> <p>Oil Pressure rated RPM</p>	<p>122 L/s (259 cfm)</p> <p>600 °C (1112 °F)</p> <p>680 mm CE (27 in. WG)</p> <p>11.5 L/h (3.0 gal/hr)</p> <p>8.2 L/h (2.2 gal/hr)</p> <p>6 L/h (1.6 gal/hr)</p> <p>36 L/h (9.5 gal/hr)</p> <p>10 L (2.6 gal)</p> <p>0.5 bar (7.2 psi)</p> <p>5 bar (72.5 psi)</p>	<p><b>Air intake</b></p> <p>Max. intake restriction</p> <p>Engine air flow</p> <p><b>Coolant System</b></p> <p>Ambient Temperature</p> <p>Radiator &amp; engine capacity</p> <p>Max water temperature</p> <p>Outlet water temperature</p> <p>Fan power</p> <p>Fan air flow</p> <p>Engine heat rejection</p> <p><b>Emissions</b></p> <p>HC, gr/kwh (gr/BHPH)</p> <p>CO, gr/kwh (gr/BHPH)</p> <p>NOx, gr/kwh (gr/BHPH)</p>	<p>200 mm CE (8 in. WG)</p> <p>45 L/s (95 cfm)</p> <p>50°C (122°F)</p> <p>8.9 L (2.4 gal)</p> <p>111 °C (232 °F)</p> <p>93 °C (199 °F)</p> <p>1.5 kW (2 kW)</p> <p>1 m3/s (2119 cfm)</p> <p>35 kW (1990 Btu/mn)</p> <p>0.10 (0.13)</p> <p>0.90 (1.21)</p> <p>6.00 (8.04)</p>

## ALTERNATOR SPECIFICATIONS

Manufacturer :	Mecc-Alte	<ul style="list-style-type: none"> <li>• Compliance with NEMA MG21, UTE NF C51.111, VDE 0530, BS 4999, CSA standards.</li> <li>• 2/3 pitch, 12 leads reconnectable.</li> <li>• Low reactance (<math>X''d &lt; 12\%</math>).</li> <li>• Vacuum-impregnated windings with epoxy varnish. IP21 drip proof</li> <li>• Generator allows as standard sustained short circuit current of up to 300% of rated current for up to 10 seconds.</li> </ul>
Type :	ECO 32 1S/4	
Pole : number	4	
Exciter type :	Compound	
Insulation : class, temperature rise	H / H	
Voltage regulator :	AVR	
Bearing : number, type :	1 , Sealed	
Coupling :	Direct	
Voltage regulation 0 to 100% load :	+/- 1%	
Recovery time (20% Volt dip) ms :	<500ms	
Reactance $X''d$ , % :	12	
Heat rejection KW :	NC	
<i>Peak motor starting KVA :</i> (Maximum at 35% voltage dip)		
480V : SHUNT / With PMG	NC	
600V : Non available		

## CONTROL PANEL

Microprocessor control panel is available on all the models. Compatible with 12 or 24 Volts Engine electrical systems.

	<p>Standard features :</p> <p>AC voltmeter, AC ammeter, Frequency meter,          Engine shutdown : Oil pressure, High water temperature, Low water level, Overspeed, Overcrank.          Engine parameters : Oil pressure, Water temperature, Fuel level, Running time meter, Battery voltage.          Emergency Stop Button, Internal clock.          Communication via a RS485 for remote management (software is an option)</p>
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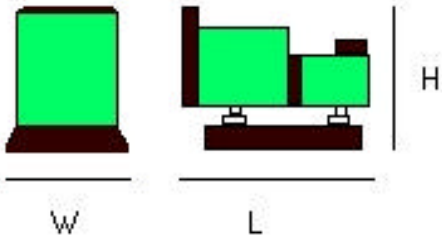
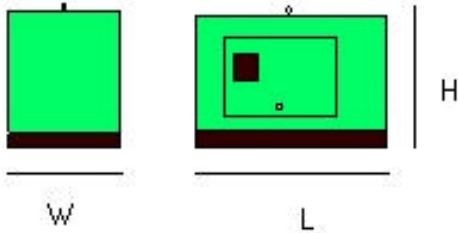
Optional :

- NFPA 110 level 1
- Remote annunciator for NFPA 110 Level 1

## OPTIONS

<p><b>Engine and Radiator</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Isochronous governor</li> <li><input type="checkbox"/> Heat shield protection</li> <li><input type="checkbox"/> Oil drain extension</li> <li><input type="checkbox"/> Heavy duty air filter</li> <li><input type="checkbox"/> Lube oil drain pump</li> <li><input type="checkbox"/> Radiator core guard</li> <li><input type="checkbox"/> Battery charger</li> <li><input type="checkbox"/> Block heater</li> </ul> <p><b>Fuel</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Day tank</li> <li><input type="checkbox"/> Subbase fuel tanks UL</li> <li><input type="checkbox"/> Water separator fuel filter</li> </ul>	<p><b>Alternator</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Anti condensation heater</li> <li><input type="checkbox"/> Enforced impregnation</li> <li><input type="checkbox"/> Oversized alternator</li> </ul> <p><b>Exhaust</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Residential silencer</li> <li><input type="checkbox"/> Critical silencer</li> <li><input type="checkbox"/> Flexible exhaust conn.</li> </ul> <p><b>Enclosure</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Silent 69db @ 23 Ft (stby)</li> <li><input type="checkbox"/> Weather protective</li> </ul>	<p><b>Control panel</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> NFPA110 level 1</li> <li><input type="checkbox"/> Remote annunciator</li> <li><input type="checkbox"/> Oil temperature shutdown</li> <li><input type="checkbox"/> Key start panel</li> </ul> <p><b>Literature</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Parts</li> <li><input type="checkbox"/> Maintenance</li> </ul> <p><b>Warranty</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Extended warranty 2 years</li> <li><input type="checkbox"/> Extended warranty 5 years</li> </ul>
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## Weights and Dimensions

<p><b>Open model</b></p> <p>Overall size l x w x h :          1515 mm x 780 mm x 1120 mm          59 in. x 30 in. x 44 in.</p> <p>Weight :          600 Kg Net 710 Kg ODM          1322 lbs Net 1565 lbs ODM</p> <div style="text-align: center;">  </div>	<p><b>Sound attenuated (silencer mounted inside)</b></p> <p>Overall size l x w x h :          2010mm x 920mm x 1330mm          79in x 362in x 523in</p> <p>Weight:          NC          NC</p> <div style="text-align: center;">  </div>	