MODEL APD2750M

Power
Pf. 0.8

Standby
kVA 2750
kW 2200

Prime
kVA 2500
kW 2000

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.

Prime: Prime limited running time (500hr/yr or lower) application only. Cannot be used for unlimited running time.

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing
- Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and on-road trailer

Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.
### ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>MITSUBISHI</th>
</tr>
</thead>
<tbody>
<tr>
<td>S16R2-PTAW2-E</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Engine Power Output</th>
<th>kWm</th>
<th>2430</th>
</tr>
</thead>
<tbody>
<tr>
<td>at rated rpm</td>
<td>HP</td>
<td>3257</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aspiration and Cooling</th>
<th>Turbocharged &amp; Aircooler(Fresh Water)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Displacement</td>
<td>Litre</td>
</tr>
<tr>
<td>No. of Cylinders and Build</td>
<td>16V</td>
</tr>
<tr>
<td>Engine Speed</td>
<td>Rpm</td>
</tr>
<tr>
<td>Bore and Stroke</td>
<td>mmxmm</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td></td>
</tr>
<tr>
<td>Governor</td>
<td></td>
</tr>
<tr>
<td>Fuel Consumption at full load</td>
<td>L/hr</td>
</tr>
<tr>
<td>Fuel Tank Capacity</td>
<td>Litre</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>Litre</td>
</tr>
<tr>
<td>Coolant Capacity</td>
<td>Litre</td>
</tr>
<tr>
<td>Radiator Cooling Air</td>
<td>m³/min</td>
</tr>
<tr>
<td>Air Intake – Engine</td>
<td>m³/min</td>
</tr>
<tr>
<td>Exhaust Gas Flow</td>
<td>m³/min</td>
</tr>
</tbody>
</table>

- Heavy duty Mitsubishi diesel engine
- Four stroke, water cooled, turbocharged & aircooler
- Direct injection fuel system
- Electronic Governor system
- 12/24 V D.C. starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter
- Cooling radiator and fan
- Starter battery (with lead acid) including Rack and Cables
- Flexible fuel connection hoses and manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater(at automatic models)
- Operation manuals and circuit diagram documents

### ALTERNATOR

<table>
<thead>
<tr>
<th>Design</th>
<th>Brushless double bearing, revolving field</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stator</td>
<td>double bearing, flexible coupling</td>
</tr>
<tr>
<td>Rotor</td>
<td>double bearing, flexible coupling</td>
</tr>
<tr>
<td>Insulation System</td>
<td>Class H</td>
</tr>
<tr>
<td>Standard Temperature Rise</td>
<td>125 - 163°C Continuous</td>
</tr>
<tr>
<td>Exciter Type</td>
<td>Self Excited</td>
</tr>
<tr>
<td>Phase Rotation</td>
<td>A (U), B (V), C (W)</td>
</tr>
<tr>
<td>Alternator Cooling</td>
<td>Direct drive centrifugal blower fan</td>
</tr>
<tr>
<td>AC Waveform Total Harmonic Distortion</td>
<td>No load &lt; 1.5%. Non distorting balanced linear load &lt; 5%</td>
</tr>
<tr>
<td>Telephone Influence Factor (TIF)</td>
<td>&lt;50 per NEMA MG1-22.43</td>
</tr>
<tr>
<td>Telephone Harmonic Factor (THF)</td>
<td>&lt;2%</td>
</tr>
</tbody>
</table>

- Brushless, double bearing system, flexible coupling , 4 poles
- Insulation class H
- Standard degree of protection IP23
- Self-exciting and self-regulating
- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator
- Stator winding with 2/3 pitch for improved harmonics

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**CONTROL SYSTEM**

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

1. **Auto Mains Failure Control Panel**
   - Panel equipments:
     ✓ Control with AMF module
     ✓ Static battery charger
     ✓ Emergency stop push button

   **a) Generating set control module DSE 7320 features:**
   - The module is used to monitor a mains supply and starts and stops a standby generating set
   - Micro-processor based design
   - Automatic control of mains and generator contactors
   - Monitors engine performance and AC power output
   - LED alarm indication
   - Front panel configuration of timers and alarm trip points
   - Easy push button control
   - STOP/RESET - MANUAL – TEST- AUTO – MUTE ALARM – START

   **b) Metering via LED display:**
   ✓ Generator Volts (L-L / L-N)
   ✓ Engine oil pressure (PSI-Bar)
   ✓ Generator Ampere (L1,L2,L3)
   ✓ Engine temperature (°C & °F)
   ✓ Generator Frequency (Hz)
   ✓ Plant battery volts
   ✓ Engine hours run
   ✓ Mains Volts (Ph-Ph/Ph-N)
   ✓ Generator kVA, kWh
   ✓ Generator kW as % of rated kW setting
   ✓ Generator Cos (σ)

   **c) Alarms:**
   ✓ Over and Under Speed
   ✓ Low and High Battery Volt.
   ✓ Start and Stop Failure
   ✓ Charge fail
   ✓ Over Current
   ✓ Under / Over Generator Voltage
   ✓ Low Oil Pressure
   ✓ Emergency stop
   ✓ High engine temperature
   ✓ kW overload
   ✓ Unbalanced load
   ✓ Independent earth fault trip

   **d) LED indications**
   Four configurable LED’s like:
   ✓ Mains available
   ✓ Generator available
   ✓ Mains on load
   ✓ Generator on load

**OPTIONAL EQUIPMENTS**

**Diesel Engine**
- Oil heater

**Alternator**
- 3/4 Pole Output Circuit Breaker
- Anti-condensation Heater

**Panel**
- Charge ammeter
- Transfer Switch 3 Pole
- Transfer Switch 4 Pole
- Earth Fault, single set

**Accessories**
- Bulk fuel tank
- Automatic filling system
- Fuel-water separator filter
- Low fuel level alarm
- Residential silencer
- Enclosure or sound proof canopy
- Trailer
- Manual oil drain pump
- Tool kit for maintenance
CHASSIS

The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
Anti-vibration pads are fixed under the engine/ alternator feet and the base frame
Base frame design incorporates an integral fuel tank (Up to 750 kVA)
The generating set can be lifted or carefully pushed / pulled by the base frame
Dial type fuel gauge and drain plug on the fuel tank
Forklift pockets within base frame (up to 500kVA)

DIMENSIONS

<table>
<thead>
<tr>
<th>DIMENSIONS (LxWxH)</th>
<th>mm</th>
<th>7480x2830x3032</th>
</tr>
</thead>
<tbody>
<tr>
<td>DRY WEIGHT</td>
<td>kg</td>
<td>19000</td>
</tr>
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