

**APD2750M**



**POWER  
YOUR  
FUTURE**

**2750 kVA / 2200 kW  
POWERED by MITSUBISHI**

**DIESEL GENERATING SET 400/230 V - 50 Hz – 3 phase**

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

MITSUBISHI		
Model	S16R2-PTAW2-E	
Engine Power Output at rated rpm	kWm	2430
	HP	3257
Aspiration and Cooling	Turbocharged & Aircooler(Fresh Water)	
Total Displacement	Litre	79.90
No. of Cylinders and Build	16V	
Engine Speed	Rpm	1500
Bore and Stroke	mmxmm	170x220
Compression Ratio	14.0:1	
Governor	Electronic	
Fuel Consumption at full load	L/hr	528
Fuel Tank Capacity	Litre	N/A
Oil Capacity	Litre	290
Coolant Capacity	Litre	730
Radiator Cooling Air	m <sup>3</sup> /min	3600
Air Intake – Engine	m <sup>3</sup> /min	212
Exhaust Gas Flow	m <sup>3</sup> /min	562

- ✓ 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

Design	Brushless double bearing, revolving field
Stator	2/3 pitch
Rotor	double bearing, flexible coupling
Insulation System	Class H
Standard Temperature Rise	125 - 163°C Continuous
Exciter Type	PMG Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%

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

## 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 ( $\sigma$ )



DSE 7320

### 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

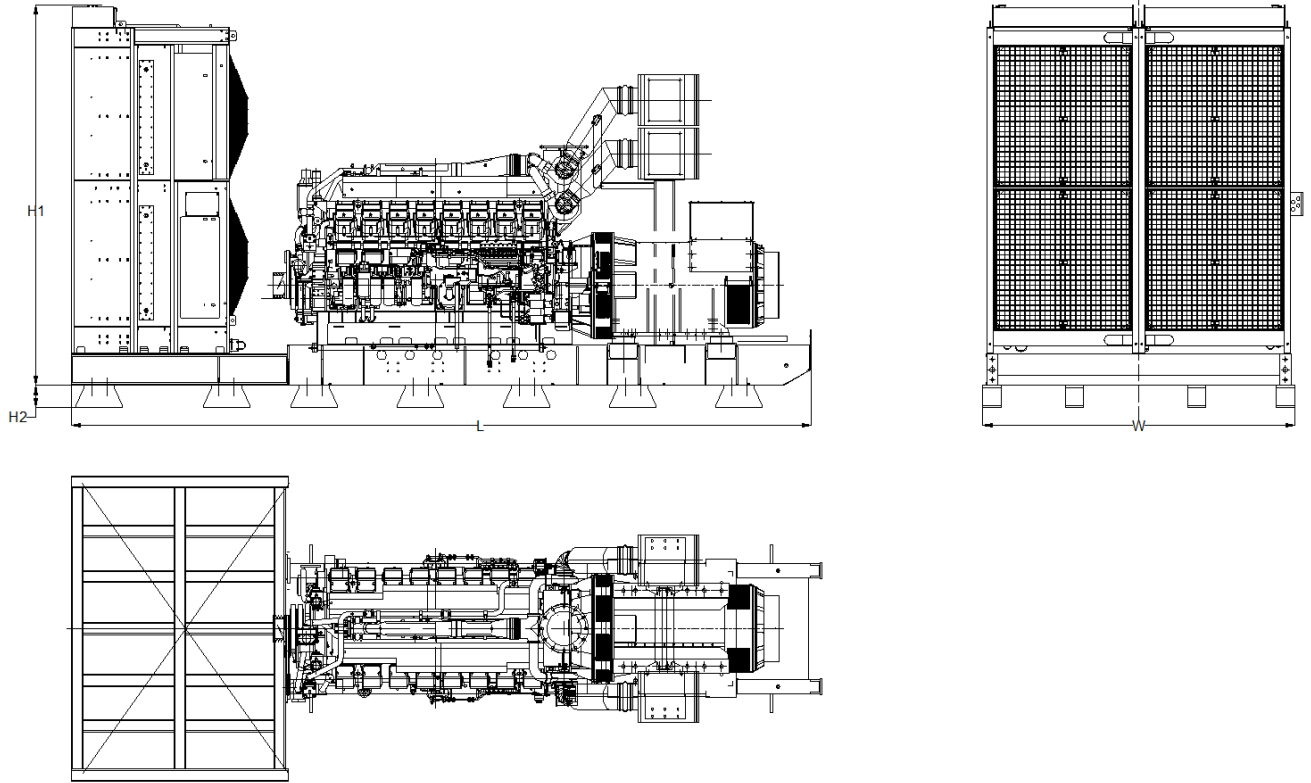
### Panel

- ✓ 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 1000 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

### OPEN TYPE

DIMENSIONS (LxWxH)	mm	7318x3080x(3766+220)
DRY WEIGHT	kg	20000

### Aksa Power Generation

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