

## AD750

POWER  
YOUR  
FUTURE750kVA / 600kW  
POWERED by HYUNDAI

## DIESEL GENERATING SET 400/230 V - 50 Hz

| MODEL            |         |     | AD750 |
|------------------|---------|-----|-------|
| Power<br>Pf. 0.8 | Standby | kVA | 750   |
|                  |         | kW  | 600   |
|                  | Prime   | kVA | 680   |
|                  |         | kW  | 544   |

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

**Prime** : Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528,ISO 3046.

- ✓ 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

| HYUNDAI                          |        |                          |
|----------------------------------|--------|--------------------------|
| Model                            |        | DP222LB                  |
| Engine Power Output at rated rpm | kWm    | 664                      |
|                                  | HP     | 890                      |
| Aspiration and Cooling           |        | Turbocharged intercooled |
| Total Displacement               | Litre  | 21.927                   |
| No. of Cylinders and Build       |        | 12-Cylinder ,V-type      |
| Engine Speed                     | rpm    | 1500                     |
| Bore and Stroke                  | mmxmm  | 128x142                  |
| Compression Ratio                |        | 15:1                     |
| Governor                         |        | Electronic control       |
| Fuel Consumption at full load    | L/hr   | 147.1                    |
| Fuel Tank Capacity               | Litre  | Open:1000/Canopy:1000    |
| Oil Capacity                     | Litre  | 40                       |
| Coolant Capacity                 | Litre  | 114                      |
| Radiator Cooling Air             | m³/min | 860                      |
| Air Intake – Engine              | m³/min | 42.5                     |
| Exhaust Gas Flow                 | m³/min | 120                      |

- ✓ Heavy duty HYUNDAI diesel engine
- ✓ Four stroke, water cooled, Turbocharged intercooled
- ✓ 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 single bearing, revolving field                |
| Stator                                | 2/3 pitch                                                |
| Rotor                                 | Single bearing, flexible disc                            |
| Insulation System                     | Class H                                                  |
| Standard Temperature Rise             | 125 - 163° C Continuous                                  |
| Exciter Type                          | Self 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, single bearing system, flexible disc, 4 poles
- ✓ Insulation class H
- ✓ Standard degree of protection IP21 (\*IP22/IP23 is available.)
- ✓ Self-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



DSE 7320

### 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

## 2. Power Outlet Terminal Board Mounted on the Genset Base Frame

## OPTIONAL EQUIPMENTS

### Diesel Engine

- ✓ Oil heater

### Alternator

- ✓ 3/4 Pole Output Circuit Breaker
- ✓ Anti-condensation Heater

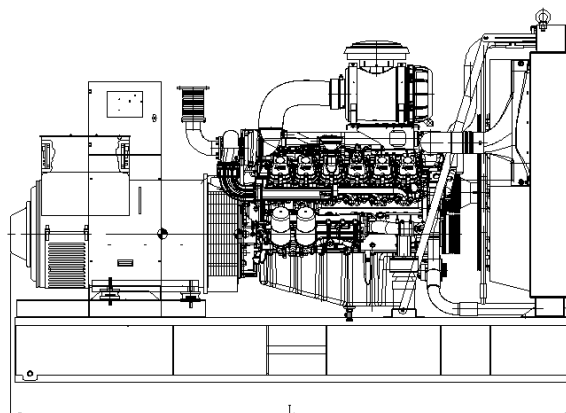
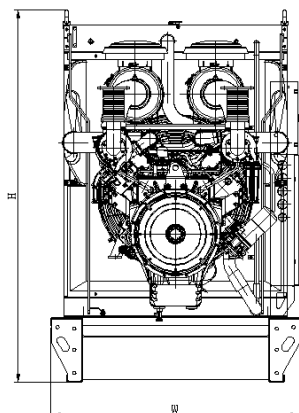
### Panel

- ✓ 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 between 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

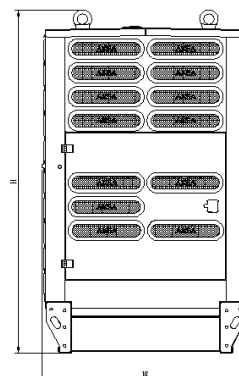
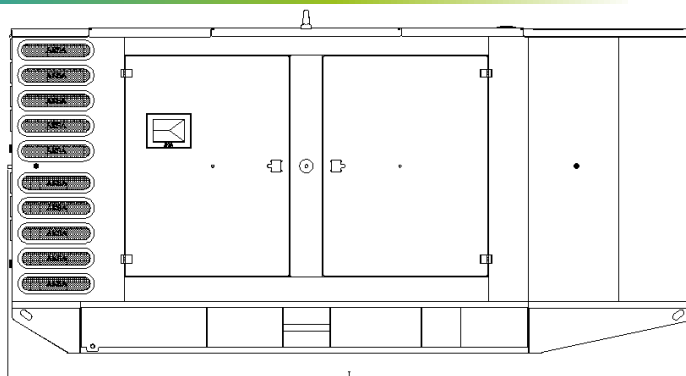
### OPEN TYPE

|                    |    |                |
|--------------------|----|----------------|
| DIMENSIONS (LxWxH) | mm | 3470*1550*2303 |
| DRY WEIGHT         | kg | 4200           |

### SOUND ATTENUATED TYPE

|                    |    |                |
|--------------------|----|----------------|
| DIMENSIONS (LxWxH) | mm | 5313*1606*2658 |
| DRY WEIGHT         | kg | 5500           |

## CANOPY



- ✓ All canopy parts are designed with modular principles
- ✓ Without welding assembly
- ✓ Doors on each side
- ✓ All metal canopy parts are painted by electrostatic polyester powder paint
- ✓ Exhaust silencer is protected against environment influences
- ✓ Thermally insulated engine exhaust system
- ✓ Emergency stop push button is installed outside of the canopy
- ✓ Easy lifting and moving
- ✓ Easy maintenance and operation

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