7 de enero del 2025

Señores:
JUNTA CENTRAL ELECTORAL

Atención: **Comité de Compras y Contrataciones**

Proceso:CP-2025-31

Estimado Señores:

Atendiendo a su solicitud de cotización, presentamos nuestra propuesta para la adquisición de una (1) Planta Eléctrica con cabina de 250KVA (200 KW).

Descripción General
Planta Eléctrica marca AKSA, modelo AD250-6, con capacidad de 200 Kw (250 KVA) para servicio de emergencia y 180 KW (225 KVA) para uso primario a 208/120V, reconectable, trifásico, 60 Hz @ 1,800 RPM.

Motor:
HYUNDAI, Modelo P086TI, 4 ciclos, 6 cilindros en línea, diésel, turbo cargado, enfriado por agua para temperatura ambiente de 50°C.

Generador:
Stamford, modelo UCI274G con aislamiento clase H, sin escobillas, cojinete sellado de bolas, acoplamiento de disco flexible, sistema de excitación, gobernador de velocidad electrónico, y con calentadores de espacio en los devanados.

Panel de Control.
DSE7320 es un panel de control digital automático que permite realizar las funciones encendido y apagado (manual, automático y prueba) para lecturas de los principales parámetros mecánicos y eléctricos de funcionamiento del grupo electrógeno tales como: voltaje, amperaje, rpm, frecuencia, presión y temperatura de aceite, temperatura del refrigerante y horómetro.

Sistema de Protección y Alarmas:
Alta temperatura de refrigerante, bajo nivel de refrigerante, baja presión de aceite lubricante, sobre velocidad de motor, falla en sistema de arranque, alta y baja corriente del generador, alto y bajo voltaje de la batería.

Aditamentos Generales:
Interruptor principal de línea (Breaker 700A), silenciador grado residencial, con acoplamiento flexible, batería con sus cables, mantenedor de carga de la batería a 24VDC, soporte, aislador de vibración y tanque de combustible integrado.

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Certificaciones:
Nuestro equipo cumple con las siguientes certificaciones y normas internacionales de calidad OHSAS18001, ISO 14001, ISO 9001.

Notas:

- Tiempo de entrega: Inmediata
- Garantía: 2 años o 2,000 horas en piezas y servicios, lo que ocurra primero.
- Validez de la oferta: 120 días.

Servicio incluidos:

- Asesoría técnica para la selección e instalación.
- Instalación. Conexión del equipo al sistema eléctrico existente.
- Trasporte y colocación en sitio.
- Puesta en marcha del equipo.
- Catálogos de mantenimiento y operación.

Agradecemos la oportunidad que nos brindan de ofrecerle nuestros productos y servicios.

Atentamente,

Sergio Pichardo.

POWER YOUR FUTURE

aksa POWER GENERATION

AD250-6

POWER
YOUR
FUTURE

250 kVA / 200 kW
POWERED by HYUNDAI

DIESEL GENERATING SET 480/277V,380/220V,220/127V- 60 Hz

MODEL			AD250-6
Power Pf. 0.8	Standby	kVA	250
		kW	200
	Prime	kVA	229
		kW	183

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

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ISO 9001 ISO 14001 ISO 45001 CE

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

ENGINE

HYUNDAI		
Model		P086TI
Engine Power Output at rated rpm	kWm	223
	HP	299
Aspiration and Cooling		Turbocharged intercooled
Total Displacement	Litre	8.071
No. of Cylinders and Build		6-Cyliner ,in-line
Engine Speed	rpm	1800
Bore and Stroke	mmxmm	111x139
Compression Ratio		16.4:1
Governor		Electrical
Fuel Consumption at full load	L/hr	50.6
Fuel Tank Capacity	Litre	Open: 380/Canopy: 380
Oil Capacity	Litre	15.5
Coolant Capacity	Litre	44
Radiator Cooling Air	m^3/min	224
Air Intake – Engine	m^3/min	23.35
Exhaust Gas Flow	m^3/min	44.6

- ✓ Heavy duty HYUNDAI diesel engine
- ✓ Four stroke, water cooled
- ✓ 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

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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:

DSE 7320

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

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

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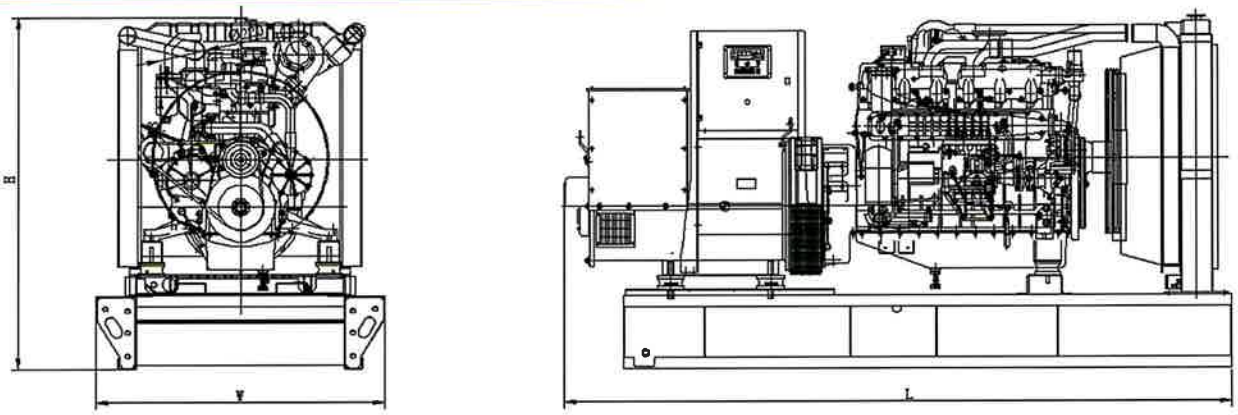
CHASSIS

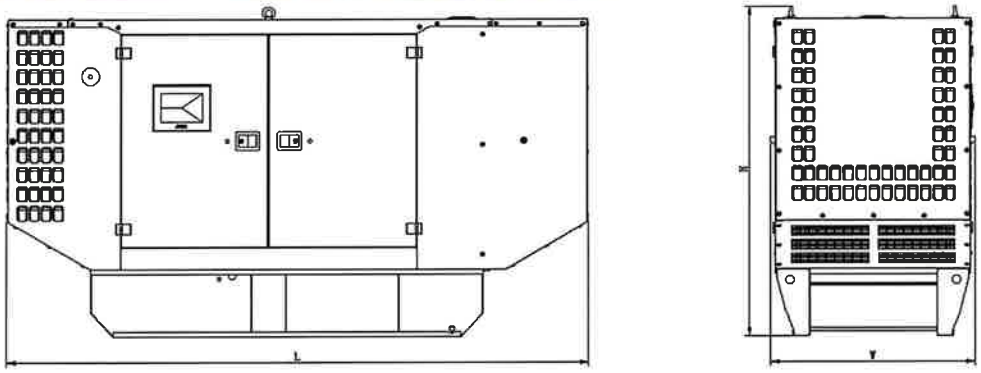


- ✓ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- ✓ Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 1000 kVA)
- ✓ The generating set can be lifted or carefully 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	2573x1150x1724
DRY WEIGHT	kg	2020
SOUND ATTENUATED TYPE		
DIMENSIONS (LxWxH)	mm	3417x1206x2022
DRY WEIGHT	kg	2590

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

EQUIMAX S.A.

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