AP125-6



GENERATING SETS

DIESEL

AKSA Power Generation has been producing industrial generator sets with an innovative compact design and excellence in quality for over **30 years**. AKSA has been providing reliable power through three main production plants and over 15 branch offices worldwide.

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General Characte	eristics					
Model Name	AP125-6		Frequency / PF	60Hz, 1800	rpm, 0.8pf	
Engine Make & Model Perkins 1104A-44TAG2 Alternator Make Stamford						
Control Panel Mode	el DSE 6020		Base Frame / Enclosure	e AKSA AK40		
Genset Rating – 60Hz, 1800rpm, 0.8pf						
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current	
1104A- 44TAG2	UCI274C	480 / 277V	125kVA	112.5kVA S	150A	
	UCI274D	380 / 222V	125kVA	112.5kVA	189A	
	UCI274C	220 / 127V	125kVA	112.5kVA	328A	
	UCI274D	208 / 120V	125kVA	112.5kVA	346A	
	ım): Power available at variable loa		-	-		

Prime Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation. The above ratings represent the engine performance capabilities to conditions specified in accordance with ISO 8528/5 & ISO3046. **Derating may be required for conditions outside of the test conditions.**

Codes & Standards

The Generator set is designed and manufactured in a facility certified to ISO9001 standards.

The Generator set is designed and manufactured in a facility certified to ISO14001:2015 standards.

AKSA Power Generation provides single source responsibility for the generator set & accessories.

The generator set, with its components, are **prototype tested** and **production tested**



AP125-6

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40 IPESA

Engine Data Electric System Manufacturer Perkins Engine Cranking Motor 12V Model 1104A-44TAG2 Engine Battery Charge System Negative Ground Displacement & Cylinders 4.4 L / 4 Cylinders Battery Qty, Rating, CCA 1 x 60Ah Engine Speed 1800rpm **Cooling System** Engine Standby Power 112.4 Kw Engine Prime Power 101.2 kW Radiator Face Area 0.25 m² Aspiration Turbocharged Fan Number of Plates/Material 10 / Composite Compression Ratio 18.23:1 Total System Capacity 12.6 L Bore / Stroke 105 mm / 127 mm 110 °C Max Top Tank Temperature Break Mean Effective Pressure 1780 kPa 82 - 93 °C Thermostat Range Engine Coolant Flow 170 l/min **Exhaust System** Combustion Air Flow 7.8 m3/min Maximum Back Pressure Exhaust Gas Flow 20.4 m³/min 15 kPa Exhaust Outlet Size 64 mm Exhaust Gas Temperature 574 °C **Overall Thermal Efficiency** 36.9 % Lubrication System Speed Variation at Constant $\pm 0.5 \%$ Load **Total System Capacity** 8 L **Fuel System** Minimum Capacity 5.5 L **Direct Injection** Max Oil Temp 125 °C Type of Injection Oil Pressure - relief valve opens 415 – 470 kPa Fuel Injection Pump Rotary Oil Consumption at full load as a 0.15 % % of fuel consumption Nozzle Opening Pressure 29 Mpa Fuel Lift Pump Flow/hour 120-150 liters/hr **Energy Balance** Energy in fuel 304.4 Kw **Fuel Consumption** Energy in power output – gross 117.5 Kw 29.7 L/h Standby Power (110%) Energy to cooling fan 5.1 Kw Prime Power (100%) 26.9 L/h Energy to coolant and oil 64 kW Prime Power (75%) 20.2 L/h Energy to exhaust 99.7 kW Prime Power (50%) 14.1 L/h

AP125-6



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Alternator Data		Controller Data		
Manufacturer	Stamford	Manufacturer	DSE	
Standards	BS EN 60034	Model	6020	
Control System	Self Excited	Туре	Auto Mains Failure Control	
A.V.R.	AS440			
Voltage Regulation	\pm 1 %	Controller Features & Benefits		
Insulation System	Class H	Microprocessor controlled License free PC Software		
Protection	IP23			
Rated Power Factor	0.8	IP65 rating offers increased resistance to water ingress		
Stator Winding	Double Layer Concentric	Front Panel Editing		
Winding Pitch	Two Thirds	Event log	vent log	
Winding Leads	12	Back-lit icon LCD display		
Telephone Interference	THF < 2 %	THF < 2 % LED and LCD alarm indication		
Waveform Distortion	No Load < 1.5 %	Power save mode		
Maximum Over speed	2250 rev/min	PC and front panel configuration		
		Configurable timers and alar	ms	
Battery Charger & Elect	rical System Data	Alternative configuration		
Manufacturer AKSA		Three phase generator monitoring		
Model	SmartGen BACo6A	Current monitoring and protection Power monitoring (kW, kVA, kVAr)		
Input Voltage	100V ~ 250V AC			
Output Voltage / Current	13,8V DC / 6A			
		Reverse power (kW & kVAr)	-	
Jacket Water Heater Da	ta	Three phase utility monitorir	ng	
Manufacturer	AKSA	Test feature		
Model	HTR1000W 100-120F	Battery voltage monitoring		
Input Voltage 1 ph, Based on gen voltage		Hours counter		
Power	1000W	Comprehensive warning or shutdown on fault condition		

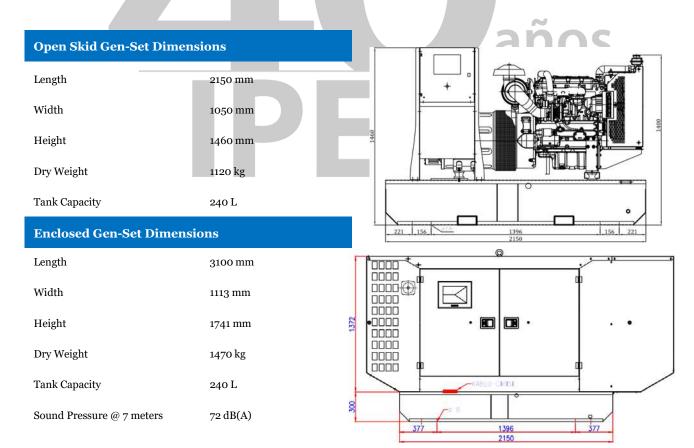
AP125-6

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Enclosure Features

- ✓ Heavy Duty Steel Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges
- ✓ Internally Mounted Exhaust System with RainCap
- ✓ Coolant Fill Cap
- ✓ Enclosure Top Lifting Hooks
- ✓ Base Fuel Tank
- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam



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



AP125-6

DIESEL **GENERATING SETS**

40 IPESA Standard Features & Accessories **Optional Accessories** ✓ Heavy Duty Steel Base Frame □ Main Line CB (3 / 4 Poles) Integral Fuel Tank, Single Wall PMG Fuel Drain Plug Anti-condensation Heater □ Single wall fuel tank – 24hours capacity Control Panel Window Double wall fuel tank Engine Jacket Water Heater Battery and Battery Rack □ Fuel Level Display & Alarm on Controller √ **Battery Charger** Low / High Fuel Alarms Radiator fill cap on enclosure Fuel Water Separator Filter Anti Vibration Pads between Engine/Alternator & Base Frame Auto Fuel Fill Control System Residential Grade Silencer Inside Enclosure Oil Temperature Display on Controller Industrial Grade Silencer Set for Open Skid Sets Manual Speed Adjust Rheostat Sound Absorb Foam for Enclosure Manual Voltage Adjust Rheostat Air Inlet & Outlet Rodent Guards Remote Annunciator Panel Oil Drain Valve Remote Control & Monitoring Panel Coolant Drain Valve Advanced SMS Messaging Flex Fuel Lines Control Panel Heater Air Filter Restriction Gauge Battery Disconnect Switch Engine Manifold Cover **Battery Heater** Turbocharger Cover IOA Battery Charger Protection Covers for Rotating Parts Battery Charge Ammeter Exhaust Insulation Cover Tool Kit for Maintenance Control Panel Window Power Plug Outlet Kit **Operations Manual** □ Automatic Transfer Panel (ATS) – Contactor Design 24 Months / 2000 hours Limited StandbyWarranty □ Automatic Transfer Panel (ATS) – Changeover Design *Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice. **SEDE PRINCIPAL:** Av. Nicolás Ayllón Nº 2241 – Ate – Lima – Perú Telf.: (51-1) 748-3333 / 326-0411 / Anexo 1152



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