



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.

General Character	ww.aka.com.tr				ACTIVE POWER DIESEL
Model Name	APD125C-6		Frequency / PF	60Hz, 1800	rpm, 0.8pf
Engine Make & Mod	el Cummins 6B	T5.9G2	Alternator Make	Stamford	
Control Panel Model	DSE 6020		Base Frame / Enclosure	AKSA ASM5	
Genset Rating – 60Hz, 1800rpm, 0.8pf					
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
	UCI274C	480 / 277V	125kVA	110kVA	150A
	UCI274D	380 / 222V	125kVA	110kVA	189A
6BT5.9G2	UCI274C	220 / 127V	125kVA	110kVA	328A
	UCI274D	208 / 120V	125kVA	110kVA	346A

Stand-by Power (Maximum): Power available at variable load in the event of main power network failure. No over load is permitted. Prime Power: 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 ${\bf prototype\ tested}$ and ${\bf production\ tested}$



AKSA POWER GENERATION DIESEL GENERATING SETS

40 IPESA

Engine Data		Electric System	
Manufacturer	Cummins	Engine Cranking Motor	24V
Model	6BT5.9G2	Engine Battery Charge System	40A, Negative Ground
Displacement & Cylinders	5.9L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 60Ah
Engine Speed	1800rpm	Battery Qty, Kating, CCA	2 x 00All
Engine Standby Power	92 kW / 123 HP	Cooling System	
Engine Prime Power	86 kW / 115 HP	Coolant Capacity	32.9 L
Aspiration	Turbocharged	Max Coolant Friction Head External to Engine -1500rpm	28 kPa
Compression Ratio	17.3 : 1	Thermostat Range	82 – 95 °C
Bore / Stroke	102 mm / 130 mm	Min Pressure Cap	69 kPa
Governor Regulation	≤ 3%	Max Top Tank Temperature	104 °C
Piston Speed	6 m/s	Max Top Tank Temperature	104 C
Friction Horsepower	12.7 kW	Exhaust System	
Engine Water Flow	2.0 litre/sec.	Max Back Pressure	10 kPa
Intake Air Flow	108 litre/sec.	Min Exhaust Pipe Size	75 mm
Exhaust Gas Flow	280 litre/sec.	Manifold Insulation	Not Acceptable
Exhaust Gas Temperature	565 °C	Turbocharger Insulation	Not Accepatable
Fuel System		Air Intake System	
Type of Injection	BYC A Direct Injection	Max Intake Air Restriction	6 kPa (Dirty Element) 4 kPa (Clean Element)
Max Restriction @ Lift Pump	22 L/h	Min Dirt Holding Capacity	53 g/cfm
Max Allowable Head on Injector Return Line	17 L/h	Max Temp Rise from Ambient to Inlet of Turbo	17 °C
Total Drain Flow	11 L/h		
Fuel Consumption		Lubrication System	
Standby Power (110%)	33.6 L/h	Max Oil Temperature	121 °C
Prime Power (100%)	29.7 L/h	Oil Capacity : High - Low	14.2 L – 12.3 L
Prime Power (75%)	22.2 L/h	Min Required Lube Capacity	16.4 L
Prime Power (50%)	15.6 L/h		
Prime Power (25%)	9.4 L/h		

AKSA POWER GENERATION

Power



	DN		40 IPES
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.	SX460		
Voltage Regulation	\pm 1 %	Controller Features & Be	enefits
nsulation System	Class H	Microprocessor controlled	
Protection	IP23	License free PC Software	
Rated Power Factor	0.8	IP65 rating offers increased resi	istance to water ingress
Stator Winding	Double Layer Concentric	Front Panel Editing	
Winding Pitch	Two Thirds	Event log	
Winding Leads	12	Back-lit icon LCD display	
Telephone Interference	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 configuratio	n N
		Configurable timers and alarms	nos
Battery Charger & Elect	rical System Data	Alternative configuration	
Manufacturer	AKSA	Three phase generator monitori	ing
Model	SmartGen BACo6A	Current monitoring and protect	ion
nput Voltage	100V ~ 250V AC	Power monitoring (kW, kVA, kV	/Ar)
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) pro	otection
		Three phase utility monitoring	
Jacket Water Heater Da		Test feature	
Manufacturer	AKSA	Battery voltage monitoring	
Model	HTR1000W 100-120F	Hours counter	
Input Voltage	1 ph, Based on gen voltage	Comprehensive warning or shut	tdown on fault condition
Power	1000W	1	

1000W

AKSA POWER GENERATION

Enclosure Features

- ✓ Heavy Duty Steel Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations

DIESEL

40 IPESA

GENERATING SETS

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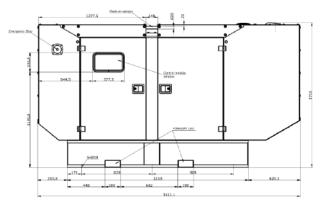
- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges
- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Base Frame Lifting Hooks
- ✓ Base Fuel Tank and Forklift Pockets
- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam



Open Skid Gen-Set D	Dimensions	and	DS
Length	2150 mm	258 - 459 Control module	
-			
Width	1000 mm		b
Height	1469 mm		3
Dry Weight	1280 kg		
Tank Capacity	195 L		
		448 185 692 185	

Enclosed Gen-Set Dimensions

Length	3121 mm
Width	1068 mm
Height	1716 mm
Dry Weight	1700 kg
Tank Capacity	195 L
Sound Pressure @ 7 meters	73 dB(A)



21.50





Standard Features & Accessories **Optional Accessories** ✓ Heavy Duty Steel Base Frame □ Main Line CB (3 / 4 Poles) Integral Fuel Tank PMG Fuel Drain Plug □ Voltage Regulation $\pm 0.5\%$ w/MX321AVR Control Panel Window Anti-condensation Heater Double Wall Base 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 Battery Disconnect Switch Air Filter Restriction Gauge 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

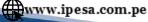
- ✓ 24 Months / 2000 hours Limited Standby Warranty
 - Automatic Transfer Panel (ATS) Changeover Design

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

SEDE PRINCIPAL:

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