



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 Chracteristics

Model Name	APD125MC-6	Frequency / PF	60Hz, 1800 rpm, 1pf
Model Halle		I I Gudelle 7 / I I	00112, 1000 i piii, ipi

Engine Make & Model Cummins 6BT5.9G2 Alternator Make Stamford

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ASM5

Genset Rating - 60Hz, 18000rpm, 1pf, Single phase

Engine	Alternator	Voltage	Standby Power kVA / kW	Prime Power kVA / kW	Standby Current
6BT5.9G2	UCI274D (Winding 06)	220 / 110V	107.5	97.8	488A

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 **prototype tested** and **production tested**









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

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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	1500rpm	Buttery &ty, reating, 0071	2 A OOI III
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	wax 10p fank resuperature	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%)	25 L/h	Max Oil Temperature	121 °C
Prime Power (100%)	22 L/h	Oil Capacity : High - Low	14.2 L – 12.3 L
Prime Power (75%)	17 L/h	Min Required Lube Capacity	16.4 L
Prime Power (50%)	11 L/h		
Prime Power (25%)	6 L/h		

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Alternator Data		Controller Data		
Manufacturer	Stamford	Manufacturer	DSE	
Standards	BS EN 60034	Model	6020	
Control System	Self Excited	Type	Auto Mains Failure Control	
A.V.R.	SX460			
Voltage Regulation	± 1 %	Controller Features & Benefits Microprocessor controlled		
Insulation System	Class H			
Protection	IP23	License free PC Software		
Rated Power Factor	1	IP65 rating offers increased resista	nnce to water ingress	
Stator Winding	Double Layer Concentric	Front Panel Editing		
Winding Pitch	Two Thirds	Event log		
Winding Leads	4	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 configuration		
		Configurable timers and alarms		
Battery Charger & Electrical System Data		Alternative configuration		
Manufacturer	AKSA	Three phase generator monitoring		
Model	SmartGen BAC06A	Current monitoring and protection	1	
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kVA, kVAr)		
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) protection		
Jacket Water Heater Data		Three phase utility monitoring		
Manufacturer	AKSA	Test feature		
Model	HTR1060W 100-120F	Battery voltage monitoring		
Input Voltage	1 ph, Based on gen voltage	Hours counter		
		Comprehensive warning or shutdo	own on fault condition	

1000W

Power

Comprehensive warning or shutdown on fault condition

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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 Rain Cap
- ✓ Coolant Fill Cap
- ✓ Base Frame Lifting Hooks
- ✓ Base Fuel Tank and Forklift Pockets
- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam

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Open Skid Gen-Set Dimensions

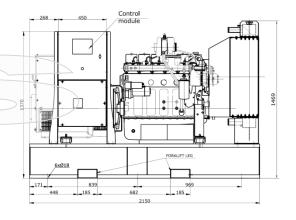
Length 2150 mm

Width 1000 mm

Height 1469 mm

Dry Weight 1280 kg

Tank Capacity 195 L



Enclosed Gen-Set Dimensions

Length 3121 mm

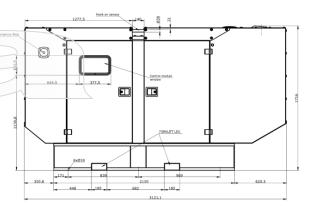
Width 1068 mm

Height 1716 mm

Dry Weight 1700 kg

Tank Capacity 195 L

Sound Pressure @ 7 meters 73 dB(A)



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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/MX321 AVR Control Panel Window ■ Anti-condensation Heater **Engine Jacket Water Heater** ■ 24 hours Capacity Base Fuel Tank **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** ■ 10A Battery Charger **Protection Covers for Rotating Parts** ■ Battery Charge Ammeter ☐ Tool Kit for Maintenance **Exhaust Insulation Cover** 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

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