



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 Characte	ww.ss.com/				Acrite POWER DIESEL #	
Model Name	APD35C-6		Frequency / PF	60Hz, 1800	rpm, 0.8pf	
Engine Make & Mod	el Cummins 4B	3.9G2	Alternator Make	Stamford		
Control Panel Model	DSE 6020		Base Frame / Enclosure	AKSA ASM2	1	
Genset Rating – 60Hz, 1800rpm, 0.8pf						
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current	
	PI144F	480 / 277V	35kVA	32kVA	42A	
4B3.9G2	PI144H	380 / 222V	35kVA	32kVA	53A	
	PI144F	220 / 127V	35kVA	32kVA	91A	
	PI144G	208 / 120V	35kVA	32kVA	97A	
Stand-by Power (Maximur	n): Power available at variable loa	d in the event of mai	n nower network failure. No over	load is permitted		

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**



Electric System

AKSA POWER GENERATION

Engine Data



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Manufacturer	Cummins	Engine Cranking Motor	24V	
Model	4B3.9G2	Engine Battery Charge System	40A, Negative Ground	
Displacement & Cylinders	3.9L / 4 Cylinders	Battery Qty, Rating, CCA	2 x 54Ah	
Engine Speed	1800rpm	Battery Qty, Rating, CCA		
Engine Standby Power	27 kW / 36 HP	Cooling System		
Engine Prime Power	24 kW / 32 HP	Coolant Capacity	19,2 L	
Aspiration	Naturally Aspired	Max Coolant Friction Head External to Engine -1500rpm	28 kPa	
Compression Ratio	17.3:1	Thermostat Range	82-95 °C	
Bore / Stroke	102 mm / 120 mm	Min Pressure Cap	69 kPa	
Governor Regulation	≤ 5%	Max Top Tank Temperature	104 °C	
Piston Speed	6 m/s			
Friction Horsepower	8.2 kW	Exhaust System		
Engine Water Flow	2.2 litre/sec.	Max Back Pressure	10 kPa	
Intake Air Flow	33 litre/sec.	Min Exhaust Pipe Size	75 mm	
Exhaust Gas Flow	71 litre/sec.	Manifold Insulation	Not Acceptable	
Exhaust Gas Temperature	410 °C	Turbocharger Insulation	Not Acceptable	
Fuel System		Air Intake System		
Type of Injection	BYC A Direct Injection		6 kPa (Dirty Element)	
		Max Intake Air Restriction	4 kPa (Clean Element)	
Max Restriction @ Lift Pump	102 mmHg	Max Intake Air Restriction Min Dirt Holding Capacity		
Max Restriction @ Lift Pump Max Allowable Head on Injector Return Line			4 kPa (Clean Element)	
Max Allowable Head on Injector	102 mmHg	Min Dirt Holding Capacity Max Temp Rise from Ambient to	4 kPa (Clean Element) 53 g/cfm	
Max Allowable Head on Injector Return Line	102 mmHg 508 mmHg	Min Dirt Holding Capacity Max Temp Rise from Ambient to	4 kPa (Clean Element) 53 g/cfm	
Max Allowable Head on Injector Return Line Total Drain Flow	102 mmHg 508 mmHg	Min Dirt Holding Capacity Max Temp Rise from Ambient to Inlet of Turbo	4 kPa (Clean Element) 53 g/cfm	
Max Allowable Head on Injector Return Line Total Drain Flow Fuel Consumption	102 mmHg 508 mmHg 30 L/h	Min Dirt Holding Capacity Max Temp Rise from Ambient to Inlet of Turbo	4 kPa (Clean Element) 53 g/cfm 17 °C	
Max Allowable Head on Injector Return Line Total Drain Flow Fuel Consumption Standby Power (110%)	102 mmHg 508 mmHg 30 L/h 9.4 L/h	Min Dirt Holding Capacity Max Temp Rise from Ambient to Inlet of Turbo Lubrication System Max Oil Temperature	4 kPa (Clean Element) 53 g/cfm 17 °C 121 °C	
Max Allowable Head on Injector Return Line Total Drain Flow Fuel Consumption Standby Power (110%) Prime Power (100%)	102 mmHg 508 mmHg 30 L/h 9.4 L/h 8.6 L/h	Min Dirt Holding Capacity Max Temp Rise from Ambient to Inlet of Turbo Lubrication System Max Oil Temperature Oil Capacity : High - Low	4 kPa (Clean Element) 53 g/cfm 17 °C 121 °C 9.5 L – 8.5 L	
Max Allowable Head on Injector Return Line Total Drain Flow Fuel Consumption Standby Power (110%) Prime Power (100%) Prime Power (75%)	102 mmHg 508 mmHg 30 L/h 9.4 L/h 8.6 L/h 6.8 L/h	Min Dirt Holding Capacity Max Temp Rise from Ambient to Inlet of Turbo Lubrication System Max Oil Temperature Oil Capacity : High - Low	4 kPa (Clean Element) 53 g/cfm 17 °C 121 °C 9.5 L – 8.5 L	

AKSA POWER GENERATION



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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.	V.R. AS480			
Voltage Regulation \pm 1 %		Controller Features & Benefits		
Insulation System	Class H	Microprocessor controlled		
Protection	IP21	License free PC Software		
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		
Winding Leads	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 configu	ration 💦	
		Configurable timers and al		
Battery Charger & Electr	rical System Data	Alternative configuration		
Manufacturer	AKSA	Three phase generator mor	itoring	
Model	SmartGen BACo6A	Current monitoring and pr	otection	
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kV	A, kVAr)	
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVA1) protection	
Jacket Water Heater Da	to	Three phase utility monitor	ing	
		Test feature		
Manufacturer	AKSA	Battery voltage monitoring		
Model	HTR500W 100-120F	Hours counter		
Input Voltage	1 ph, Based on gen voltage	Comprehensive warning or shutdown on fault condition		
Power	500W			

DIESEL GENERATING SETS

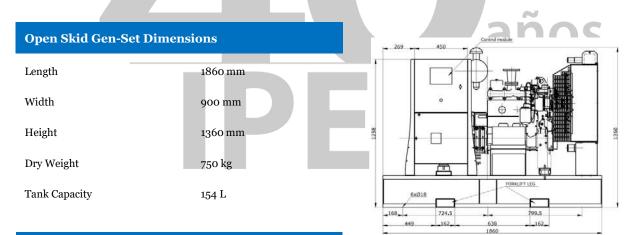
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AKSA POWER GENERATION

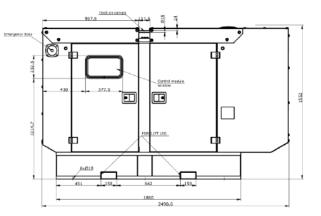
Enclosure Features

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



Enclosed Gen-Set Dimensions

Length	2491 mm
Width	965 mm
Height	1552 mm
Dry Weight	1070 kg
Tank Capacity	154 L
Sound Pressure @ 7 meters	74 dB(A)



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

DIESEL GENERATING SETS

Standard Features & Accessories **Optional Accessories** ✓ Heavy Duty Steel Base Frame □ Main Line CB (3 / 4 Poles) Integral Fuel Tank □ EBS Fuel Drain Plug Anti-condensation Heater Control Panel Window Bulk fuel tank 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

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SEDE PRINCIPAL:

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