



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 Characteristics

Model Name APD250C-6 Frequency PF 60Hz, 1800 rpm, 0.8pf

Engine Make & Model Cummins 6CTAA8.3G2 Alternator Make Stamford

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ASM6A

Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
6CTAA8.3G2	UCI274G	480 / 277V	250kVA	225kVA	300A
	UCDI274J	380 / 222V	250kVA	225kVA	379A
	UCI274H	220 / 127V	250kVA	225kVA	656A
	UCI274H	208 / 120V	250kVA	225kVA	693A

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**













Engine Data		Electric System	
Manufacturer	Cummins	Engine Cranking Motor	24V
Model	6CTAA8.3G2	Engine Battery Charge System	40A, Negative Ground
Displacement & Cylinders	8.3L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 80Ah
Engine Speed	1800rpm	battery Qty, Rating, CCA	2 X GOAH
Engine Standby Power	203 kW / 272 HP	Cooling System	
Engine Prime Power	183 kW / 245 HP	Coolant Capacity	41,3 L
Aspiration	Turbocharged and Charge Air Cooled	Max Coolant Friction Head External to Engine -1500rpm	28 kPa
Compression Ratio	18:1	Thermostat Range	82 – 93 °C
Bore / Stroke	114 mm / 135 mm	Min Pressure Cap	103 kPa
Governor Regulation	≤ 3%	Max Top Tank Temperature	110 °C
Piston Speed	ston Speed 6.8 m/s		110 C
Friction Horsepower	17 kW	Exhaust System	
Engine Water Flow	3.3 litre/sec.	Max Back Pressure	10.1 kPa
Intake Air Flow	191 litre/sec.	Min Exhaust Pipe Size	
Exhaust Gas Flow	547 litre/sec.	Manifold Insulation	Not Acceptable
Exhaust Gas Temperature	580 °C	Turbocharger Insulation	Not Accepatable
Fuel System		Air Intake System	
Type of Injection	BYC P7100 Direct Injection	Max Intake Air Restriction	6.2 kPa (Dirty Element) 3.7 kPa (Clean Element)
Max Restriction @ Lift Pump	20.3 kPA	Min Dirt Holding Capacity	NA
Max Fuel Flow of the Supply	83 litre/hr	Max Temp Rise from Ambient to Inlet of Turbo	NA
Max Fuel Inlet Temperature	70 °C		
Fuel Consumption		Lubrication System	
Standby Power (110%)	56 L/h	Max Oil Temperature	121 °C
Prime Power (100%)	49 L/h	Oil Capacity : High - Low	-
Prime Power (75%)	37 L/h	Min Required Lube Capacity	23.8 L
Prime Power (50%)	25 L/h		
Prime Power (25%)	15 L/h		

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

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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	Controller Features & Ben	efits	
Voltage Regulation	± 1 %	Microprocessor controlled		
Insulation System	Class H	License free PC Software		
Protection	IP23	IP65 rating offers increased resista	ance to water ingress	
Rated Power Factor 0.8		Front Panel Editing		
Stator Winding	Double Layer Concentric	Event log		
Winding Pitch Winding Leads	Two Thirds	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 & Electric	cal System Data	Alternative configuration		
Manufacturer	AKSA	Three phase generator monitoring		
Model	SmartGen BAC06A	Current monitoring and protection	n	
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kVA, kVA	•)	
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) protection	ction	
Jacket Water Heater Data		Three phase utility monitoring		
Manufacturer	AKSA	Test feature		
Model	HTR1500W 100-120F	Battery voltage monitoring		
Input Voltage 1 ph, Based on gen voltage		Hours counter		
Power	1500W	Comprehensive warning or shutdo	wn 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

ACKS & Section 1

Open Skid Gen-Set Dimensions

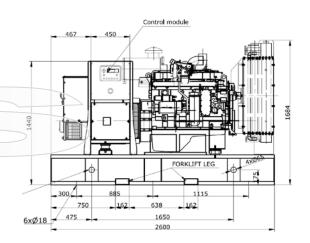
Length 2600 mm

Width 1250 mm

Height 1684 mm

Dry Weight 1880 kg

Tank Capacity 473 L



Enclosed Gen-Set Dimensions

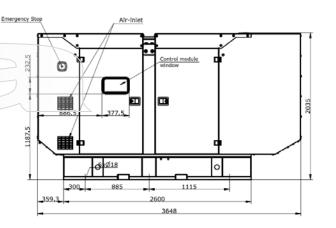
Length 3650 mm Width 1313 mm_{2}

Height 2035 mm

Dry Weight 2530 kg

Tank Capacity 473 L

Sound Pressure @ 7 meters 78.5 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 ± 0.5% w/MX321 AVR		
✓ Control Panel Window	☐ Anti-condensation Heater		
✓ Engine Jacket Water Heater	☐ Double Wall Base Fuel Tank		
✓ Battery and Battery Rack	☐ Fuel Level Display & Alarm on Controller		
✓ Battery Charge	☐ 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	☐ 10A 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		

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