



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.

	www.aksa.com.tr			. www.eaksa.com.tr	# ACTIVIT ACTIVE OF DIESEL*
General Character					
Model Name	APD220C-6		Frequency / PF	60Hz, 1800	rpm, 0.8pf
Engine Make & Model Cummins 6CTA8.3G2 Alternator Make Stamford					
Control Panel Model	DSE 6020		Base Frame / Enclosure	AKSA ASM6	
Genset Rating – 60Hz, 1800rpm, 0.8pf					
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
6CTA8.3G2	UCI274F	480 / 277V	220kVA	200kVA	264A
	UCI274H	380 / 222V	220kVA	200kVA	334A
	UCI274G	220 / 127V	220kVA	200kVA	577A
	UCI274H	208 / 120V	220kVA	200kVA	610A

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**



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Prime Power (25%)

DIESEL GENERATING SETS

40 IPESA

Engine Data		Electric System		
Manufacturer	Cummins	Engine Cranking Motor	24V	
Model	6CTA8.3G2	Engine Battery Charge System	40A, Negative Ground	
Displacement & Cylinders	8.3L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 80Ah	
Engine Speed	180rpm	Dattery Qty, Rainig, CCA	2 x 00/11	
Engine Standby Power	180 kW / 241 HP	Cooling System		
Engine Prime Power	163 kW / 218 HP	Coolant Capacity	41.3 L	
Aspiration	Turbocharged&Aftercooled	Max Coolant Friction Head External to Engine -1500rpm	28 kPa	
Compression Ratio	17.3:1	Thermostat Range	82 – 95 °C	
Bore / Stroke	114 mm / 135 mm	Min Pressure Cap	69 kPa	
Governor Regulation	≤ 3%	Max Top Tank Temperature	104 °C	
Piston Speed	2 ciston Speed 6.8 m/s		104 0	
Friction Horsepower	17 kW	Exhaust System		
Engine Water Flow	3.3 litre/sec.	Max Back Pressure	10 kPa	
Intake Air Flow	206 litre/sec.	Min Exhaust Pipe Size	75 mm	
Exhaust Gas Flow	578 litre/sec.	Manifold Insulation	Not Acceptable	
Exhaust Gas Temperature	563 °C	Turbocharger Insulation	Not Accepatable	
Fuel System		Air Intake System		
Type of Injection	BYC PB Direct Injection	Max Intake Air Restriction	6 kPa (Dirty Element) 4 kPa (Clean Element)	
Max Restriction @ Lift Pump	27 kPA	Min Dirt Holding Capacity	25 g/cfm	
Max Allowable Head on Injector Return Line	33.7 kPA	Max Temp Rise from Ambient to Inlet of Turbo	17 °C	
Max Fuel Inlet Temperature	71 °C			
Fuel Consumption		Lubrication System		
Standby Power (110%)	49 L/h	Max Oil Temperature	121 °C	
Prime Power (100%)	44 L/h	Oil Capacity : High - Low	-	
Prime Power (75%)	33 L/h	Min Required Lube Capacity	27.6 L	
Prime Power (50%)	23 L/h			

14 L/h



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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.	SX460	Controller Features & Ben	efits
Voltage Regulation	\pm 1 %		
Insulation System	Class H	Microprocessor controlled	
Protection	IP23	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	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 configuration	N
		Configurable timers and alarms	nos
Battery Charger & Electric	eal System Data	Alternative configuration	
Manufacturer	AKSA	Three phase generator monitoring	
Model	SmartGen BACo6A	Current monitoring and protection	1
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kVA, kVA	r)
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) prote	ction
		Three phase utility monitoring	
Jacket Water Heater Data		Test feature	
Manufacturer	AKSA	Battery voltage monitoring	
Model	HTR1500W 100-120F		
Input Voltage	1 ph, Based on gen voltage	Hours counter Comprehensive warning or shutdo	own on fault condition
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Power

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1500W

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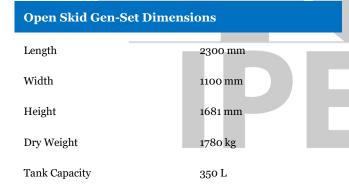
40 IPESA Enclosure Features

DIESEL

GENERATING SETS

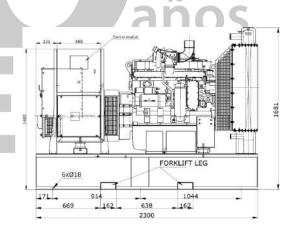
- ✓ Heavy Duty Steel Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges
- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Base Frame Lifting Hooks
- ✓ Base Fuel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

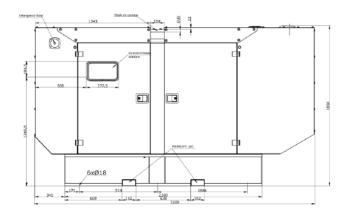




Enclosed Gen-Set Dimensions

Length	3269 mm
Width	1168 mm
Height	1866 mm
Dry Weight	2280 kg
Tank Capacity	350 L
Sound Pressure @ 7 meters	73 dB(A)







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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