



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	www.aks.com.tr tristics				WADRIVE POWER DIESEL W	
Model Name	APD5oC-6		Frequency / PF	60Hz, 1800	rpm, 0.8pf	
Engine Make & Mod	el Cummins 4 I	3T3.9G2	Alternator Make	Stamford		
Control Panel Model	DSE 6020		Base Frame / Enclosure	AKSA ASM4		
Genset Rating – 60Hz, 1800rpm, 0.8pf						
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current	
	PI144J	480 / 277V	50kVA	45kVA	60A	
4BT3.9G2	PI144K	380 / 222V	50kVA	45kVA	75A	
	PI144J	220 / 127V	50kVA	45kVA	131A	
	PI144K	208 / 120V	50kVA	45kVA	138A	

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**



AKSA POWER GENERATION



40 IPESA

Engine Data		Electric System		
Manufacturer	Cummins	Engine Cranking Motor	24V	
Model	4BT3.9G2	Engine Battery Charge System	40A, Negative Ground	
Displacement & Cylinders	3.9L / 4 Cylinders	Battery Qty, Rating, CCA	2 x 54Ah,	
Engine Speed	1500rpm	Dattery Qty, Nating, COM	2 x 94111,	
Engine Standby Power	40 kW / 54 HP	Cooling System		
Engine Prime Power	36 kW / 48 HP	Coolant Capacity	19.2 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 / 120 mm	Min Pressure Cap	69 kPa	
Governor Regulation	≤ 5%	Max Top Tank Temperature	104 °C	
Piston Speed 6 m/s		Max Top Tank Temperature	104 0	
Friction Horsepower	8.2 kW	Exhaust System		
Engine Water Flow	2.2 litre/sec.	Max Back Pressure	10 kPa	
Intake Air Flow	45 litre/sec.	Min Exhaust Pipe Size	75 mm	
Exhaust Gas Flow	108 litre/sec.	Manifold Insulation	Not Acceptable	
Exhaust Gas Temperature	487 °C	Turbocharger Insulation	Not Acceptable	
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	102 mmHg	Min Dirt Holding Capacity	53 g/cfm	
Max Allowable Head on Injector Return Line	508 mmHg	Max Temp Rise from Ambient to Inlet of Turbo	17 °C	
Total Drain Flow	30 L/h			
Fuel Consumption		Lubrication System		
Standby Power (110%)	11.7 L/h	Max Oil Temperature	121 °C	
Prime Power (100%)	10.7 L/h	Oil Capacity : High - Low	9.5 L – 8.5 L	
Prime Power (75%)	8.4 L/h	Min Required Lube Capacity	10.9 L	
Prime Power (50%)	6.2 L/h			
Prime Power (25%)	4.2 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.	AS480				
Voltage Regulation \pm 1 %		Controller Features & Benefits			
Insulation System	nsulation System Class H		Microprocessor controlled		
Protection	IP21	License free PC Software IP65 rating offers increased resistance to water ingress			
Rated Power Factor	0.8				
Stator Winding	Double Layer Concentric	Double Layer Concentric Front Panel Editing			
Winding Pitch	Two Thirds Event log 12 Back-lit icon LCD display				
Winding Leads					
Telephone Interference	THF < 2 %	LED and LCD alarm indication			
Waveform Distortion	No Load < 1.5 %	Power save mode			
Maximum Over speed	num Over speed 2250 rev/min		PC and front panel configuration		
		Configurable timers and a	larms		
Battery Charger & Electr		Alternative configuration			
Manufacturer	AKSA	Three phase generator mo	onitoring		
Model	SmartGen BACo6A	Current monitoring and protection			
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kV	VA, kVAr)		
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVA	Ar) protection		
Jacket Water Heater Da	ta	Three phase utility monito	oring		
Manufacturer	AKSA	Test feature			
Model	HTR500W 100-120F	Battery voltage monitorin	g		
Input Voltage	-		Hours counter		
Power	500W	Comprehensive warning or shutdown on fault condition			

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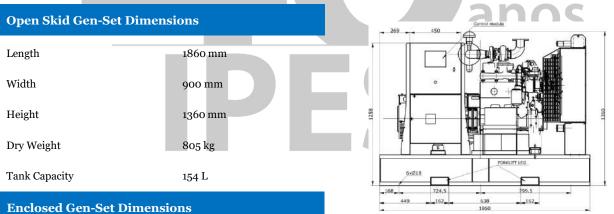
40 IPESA

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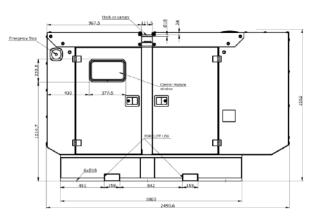
GENERATING SETS

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



Length	2491 mm
Width	965 mm
Height	1552 mm
Dry Weight	1125 kg
Tank Capacity	154 L
Sound Pressure @ 7 meters	72 dB(A)





AKSA POWER GENERATION

APD50C-6



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 Bulk Fuel Tank Control Panel Window 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 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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