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.

Image: market and mark						
General Characte	eristics					
Model Name	APD150A		Frequency / PF	50Hz, 150	0 rpm, 0.8pf	
Engine Make & Mod	del Aksa A6C	RX69TI	Alternator Make	Aksa		
Control Panel Mode	d DSE 6020		Base Frame / Enclosure	AKSA ASM	16	
Genset Rating – 50Hz, 15000rpm, 0.8pf						
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current	
A6CRX69TI	AK4130	400 / 230V	165kVA	150kVA	238A	

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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APD165A



Engine Data		Electric System		
Manufacturer	Aksa	Engine Cranking Motor	24V	
Model	A6CRX69TI	Engine Battery Charge System	Negative Ground	
Displacement	6.87L	Battery Qty, Rating, CCA	2 x 80Ah	
Cylinders	6 In-line	Dattery Qty, Rainig, CCA	2 x 00Ali	
Engine Standby Power	138 kWm	Cooling System		
Engine Speed	1500 rpm	Coolant Capacity – Engine only	9.35 liters	
Aspiration	Turbocharger with air-air Intercooler	Thermostat Range	76 – 95 °C	
Compression Ratio	17: 1 108 mm / 125 mm Electronic Anti-clockwise (viewed on flywheel)	Max Top Tank Temperature	99 °C	
Bore / Stroke		Coolant intake size	Φ52 mm	
Governor Direction of Rotation		Coolant outlet size	Φ52 mm	
Firing Order 1-5-3-6-2-4		Exhaust System		
Combustion Cycle	Four stroke, compression ignition	Max Back Pressure	6 kPA	
Steady State Speed Stability at Constant Load	$\pm 0.25\%$	Manifold Insulation	Not Acceptable	
Total Weight (engine only - dry)	$640 \pm 20 \text{ kg}$	Turbocharger Insulation	Not Acceptable	
Sound Pressure	≤ 113 dBA			
Fuel System		Lubrication System		
Type of Injection	Direct Injection	Oil Type	L-ECD 15W/40	
Fuel Injection Pump	Р	Oil Capacity	16 L	
Fuel Oil Type	O# or 10#	Oil temp max to Bearings	115 °C	
		Oil Pressure @ Governed Speed	294 ~ 490 kPA	
Fuel Consumption		Energy Balance		
Standby Power (110%)	39.2 L/h	Energy in Fuel	20970 btu/min	
Prime Power (100%)	35.5 L/h	Gross Heat to Power	7838 btu/min	
Prime Power (75%)	27.0 L/h	Energy to Coolant & Oil	5870 btu/min	
Prime Power (50%)	18.0 L/h	Energy to Exhaust	6770 btu/min	
Prime Power (25%)	9.1 L/h	Heat to Radiation	491 btu/min	

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APD165A



Alternator Data		Controller Data	
Manufacturer	Aksa	Manufacturer	DSE
Standards	BS EN 60034	Model	6020
Control System	Self Excited	Туре	Auto Mains Failure Control
A.V.R.	SX460		
Voltage Regulation	\pm 1,5 %	Controller Features & Ben	ents
Insulation System	Class H	Microprocessor controlled	
Protection	IP22	License free PC Software	
Rated Power Factor	0.8	IP65 rating offers increased resista	nce 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	
		Configurable timers and alarms	
Battery Charger & Electric	cal System Data	Alternative configuration	
Manufacturer	AKSA	Three phase generator monitoring	
Model	SmartGen BACo6A	Current monitoring and protectior	1
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kVA, kVAr	
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) protec	
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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APD165A

Enclosure Features



1

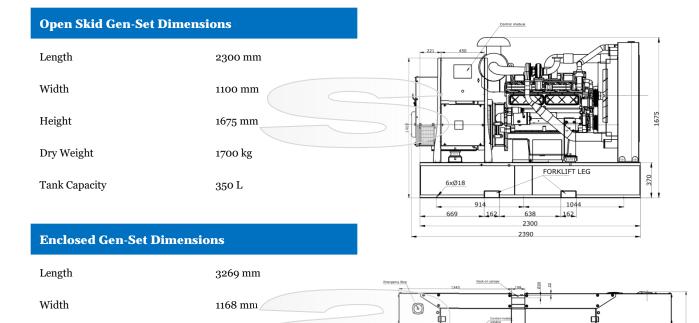
✓ Heavy Duty Steel Structure ✓ E-Stop on Enclosure Control Panel Eliminated from Engine Vibrations 2 ✓ Control Panel Window ✓ Plastic Covered Corrosion Resistant Locks & Hinges 3 4 $\checkmark~$ Internally Mounted Exhaust System with Rain Cap 🗸 Coolant Fill Cap Base Frame Lifting Hooks V ✓ Base Fuel Tank and Forklift Pockets 5 6 Easy Access for Maintenance √

✓ Sound Absorb High Density Foam

6xØ18

345

2300



1866 mm

2200 kg

350 L

75 dB(A)

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Sound Pressure @ 7 meters

Height

Dry Weight

Tank Capacity

43.5

APD165A



Standard Features & Accessories	Optional Accessories		
✓ Heavy Duty Steel Base Frame	B Main Line CB (3 / 4 Poles)		
✓ Integral Fuel Tank, Single Wall	PMG		
✓ Fuel Drain Plug	□ Voltage Regulation ±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		
✓ 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 Piug 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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