



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 APD125A Frequency / PF 50Hz, 1500 rpm, 0.8pf

Engine Make & Model Aksa A6CRX65TI Alternator Make Aksa

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ASM6

Genset Rating – 50Hz, 15000rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
A6CRX65TI	AK492	400 / 230V	125kVA	115kVA	180A

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









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





Engine Data		Electric System	
Manufacturer	Aksa	Engine Cranking Motor	24V
Model	A6CRX65TI	Engine Battery Charge System	Negative Ground
Displacement	6.49L	Battery Qty, Rating, CCA	2 x 80Ah
Cylinders	6 In-line	buttery Qty, Ruting, CO1	2 x 001ii
Engine Standby Power	120 kWm	Cooling System	
Engine Speed	1500 rpm	Coolant Capacity – Engine only	9.35 liters
Aspiration	Turbocharger & Aftercooler	Thermostat Range	76 – 95 °C
Compression Ratio	17: 1	Max Top Tank Temperature	99 °C
Bore / Stroke	105 mm / 125 mm	Coolant intake size	Φ52 mm
Governor	Electronic	Coolant outlet size	Φ52 mm
Direction of Rotation	Anti-clockwise (viewed on flywheel)		
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 ±20 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	PM	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%)	28.9 L/h	Energy in Fuel	18285 btu/min
Prime Power (100%)	26.3 L/h	Gross Heat to Power	6834 btu/min
Prime Power (75%)	19.7 L/h	Energy to Coolant & Oil	5118 btu/min
Prime Power (50%)	13.2 L/h	Energy to Exhaust	5903 btu/min
Prime Power (25%)	6.6 L/h	Heat to Radiation	428 btu/min

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





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 & Bend	efits
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 protection	
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kVA, kVAr))
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) protec	tion
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 shutdow	wn on fault condition

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



1

APD125A

3

4



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

Open Skid Gen-Set Dimensions

Length 2300 mm

Width 1100 mm

Height 1675 mm

Dry Weight 1570 kg

Tank Capacity 350 L

Control module 2221 450 FORKLIFT LEG 6xØ18 6xØ18 6x8 1044 669 162 2300

Enclosed Gen-Set Dimensions

Length 3269 mm

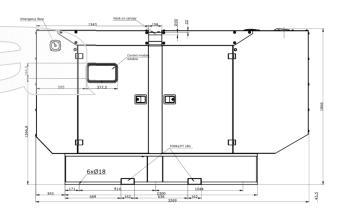
Width 1168 mm

Height 1866 mm

Dry Weight 2070 kg

Tank Capacity 350 L

Sound Pressure @ 7 meters 71 dB(A)



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





Standard Features & Accessories	Optional Accessories		
✓ Heavy Duty Steel Base Frame	☐ 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 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.

Aksa Power Generation USA

371 Exchange Street, West Monroe, LA 71292 T: + 1 318 8558377 sales@aksausa.com



a member of

Aksa Power Generation LATAM 12320 NW 116th Street, Miami, FL 33178 T: +1786 4936857 sales@aksausa.com