AD110-6

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	AD110-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Doosan D1146	Alternator Make	Stamford
Control Panel Model	DSE 6020	Base Frame / Enclosure	AKSA AK50

Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
D1146	UCI224G (Wnd-311)	480 / 277V	110kVA	100kVA	132A
	UCI274C (Wnd-14)	380 / 222V	110kVA	100kVA	167A
	UCI274C (Wnd-311)	220 / 127V	110kVA	100kVA	289A
	UCI274C (Wnd-311)	208 / 120V	110kVA	100kVA	305A

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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DIESEL

GENERATING SETS

aksa POWER GENERATION

AD110-6



Engine Data		Electric System	
Manufacturer	Doosan	Engine Cranking Motor	24V
Model	D1146	Engine Battery Charge System	Negative Ground
Displacement & Cylinders	8.071 L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 80Ah
Engine Speed	1800rpm	Dattory gey, Nating, Corr	
Engine Standby Power	105 Kw	Cooling System	
Engine Prime Power	96 kW	Cooling Fan	Blower Type, 6 Blades
Aspiration	Naturally Aspirated	Pressure Cap Setting	49 kPa
Compression Ratio	17 .5: 1	Coolant Capacity	34 L
Bore / Stroke	111 mm / 139 mm	Max Water Temperature	103 °C
Break Mean Effective Pressure	0.87 Mpa	Thermostat Range	71– 85 °C
Mean Piston Speed	8.34 m/s	Thermostat Range	71-05 0
Over Speed Limit	1980 rpm	Exhaust System	
Friction Power	33 Kw	Max Allowable Back Pressure	5.9 kPa
Dry Weight – w/fan	720 kg		
Sound Pressure at Rated Power	94.5 dB(A)	Fuel System	
		Injector Pump Type	Bosch In-line
Lubrication System		Fuel Feed Pump Capacity	175 L/h
Oil Capacity, Max	15.5 L	Max Fuel Inlet Restriction	10 kPa
Oil Capacity, Min	12 L		
Max Oil Temp	120 °C	Max Fuel Return Restriction	60 kPa
Min Oil Pressure	250 kPa	Fuel Consumption	
Air Intake System		Standby Power (110%)	26.6 L/h
Max Intake Air Restriction	2.16 kPa – Clean Element	Prime Power (100%)	23.2 L/h
Max Intake Air Restriction	6.23 kPa – Dirty Element	Prime Power (75%)	17.6 L/h
		Prime Power (50%)	12.9 L/h
Max Static Pressure After Rad	0.125 kPa	Prime Power (25%)	8.1 L/h
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AD110-6



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.	AS440		
Voltage Regulation	\pm 1 %	Controller Features & Benefits	
Insulation System	Class H	Microprocessor controlled	
Protection	IP23	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	al System Data	Alternative configuration	
Manufacturer	AKSA	Three phase generator monitoring	
Model	SmartGen BAC06A	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	HTR10COW 100-120F	Battery voltage monitoring	
Input Voltage	1ph, Based on gen voltage	Hours counter	
Power	1000W	Comprehensive warning or shutdo	wn on fault condition

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AKSA POWER GENERATION

AD110-6

Enclosure Features

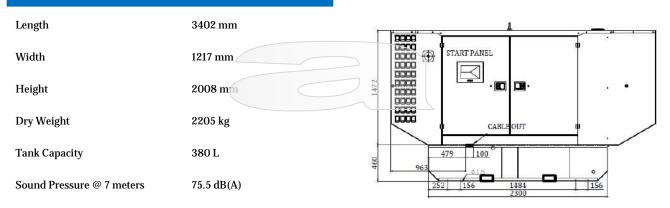




✓ Sound Absorb High Density Foam

Open Skid Gen-Set D	imensions
Length	2690 mm
Width	1150 mm
Height	1620 mm
Dry Weight	1830 kg
Tank Capacity	380 L

Enclosed Gen-Set Dimensions



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AKSA POWER GENERATION

AD110-6



Standard Features & Accessories	Optional Accessories
✓ Heavy Duty Steel Base Frame	Main Line CB (3 / 4 Poles)
✓ Integral Fuel Tank	D 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 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
\checkmark Industrial Grade Silencer Set for Open Skid Sets	Manual Speed Adjust Rheostat
✓ Sound Absorb Foam for Enclosure	Manual Voltage Adjust Rheostat
$\checkmark~$ 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	L Automatic Transfer Panel (ATS) – Contactor Design
✓ 24 Months / 2000 hours Limited Standby Warranty	Automatic Transfer Panel (ATS) – Changeover Design

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