



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.



Genset Rating

Engine	Alternator	Voltage	PF	Standby Power	Standby Current	Prime Power	Prime Current
	UCI274D (Wnd-311)	480/277V	0.8	100kW	150A	90kW	135A
4045 HF285	UCI274D (Wnd-06)	240/120V,	1	190kW	416A	90kW	375A
	UCI274D (Wnd-311)	208/120V	0.8	100kW	347A	90kW	312A
	UCI274C (Wnd-17)	600/347V	0.8	100kW	120A	90kW	108A

*EPA – Certified for Emergency Stationary Applications

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** according to the UL test program.

The generator set meets **NFPA70**, **99**, **110**, **37** Level 1 when equipped with the necessary accessories and installed per NFPA standards.











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Engine Data		Electric System		
Manufacturer	John Deere	System Voltage	12V	
Model	4045HF285	Min Voltage at ECU during crank	6V	
Displacement & Cylinders	4.5 L / 4 Cylinders	Battery Qty, Rating	1 x 60Ah	
Engine Type	In-line, 4 Cycle			
Engine Speed	1800rpm	Cooling System		
Engine Prime Power w/Fan	107kW	Radiator Cooling System Type	Closed Circuit	
Engine Standby Power w/Fan	118 kW	Radiator Ambient Temp	> 50 °C	
Aspiration	Turbocharged & Air to Air Aftercooled	Coolant Capacity, Engine Only	9 quart	
Compression Ratio	19.0:1	Max Top Tank Temp	230 °F	
Bore / Stroke	106 mm / 127 mm	Thermostat, Start – Fully Open	180– 203 °F	
Governor type	ernor type Electronic			
Engine crankcase vent system	Open	Exhaust System		
Fan Power	6.5 kW	Exhaust Temperature	1076 °F	
Designed / Calibrated to Meet	EPA Tier 3	Max Allowable Exhaust Restriction	7.5 kPa	
Fuel System		Exhaust Gas Flow	22.8 m³/min	
Combustion System	L16 Controller			
Governor Type	Electronic	Lubrication System		
Total Fuel Flow	140 lb/hr	Oil Pressure at Rated Speed	46 psi	
		Max Crankcase Pressure	0.5 kPa	
Fuel Consumption		Air Intake System		
110% Load	8.21 gal/h		242 24 1	
100% Load	7.55 gal/h	Engine Air Flow Max Intake Air Restriction	8.16 m ³ /min	
75% Load	6.02 gal/h	(Clean Element)	3.75 kPa	
50% Load	4.3 gal/h	Air Filter Type	Dry Paper Element	

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Alternator Data		Controller Data				
Manufacturer	Stamford	Manufacturer	DSE			
Standards	BS EN 60034	Model	7320			
Control System	PMG	Type	Auto Mains Failure Control			
A.V.R.	MX341					
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	ance to water ingress			
Stator Winding	Double Layer Concentric	Modules can be integrated to build	ling management systems			
Winding Pitch	Two Thirds	Real time clock provides accurate	event log			
Winding Leads	12	Four line back-lit LCD text display	,			
Telephone Interference	THF < 2 %	Five key menu navigation				
Waveform Distortion	No Load < 1.5 %	Front panel editing with PIN prote	ection			

Battery Charger & Electrical System Data

 $\begin{tabular}{lll} Manufacturer & ComAp \\ \\ Model & InteliCharger \\ \\ Input Voltage & 85V \sim 264V AC \\ \\ \end{tabular}$

2250 rev/min

Output Voltage / Current 13.6V Float / 4.0A pk

Tool	- a + 1	1.1/00	100	ПП	001	 Da	40

Maximum Over speed

Manufacturer Hotstart
Input Voltage 120V
Power 1000W

Configurable timers and alarms

Support up to three remote display modules

Multiple date and timer scheduler

Integral PLC editor

'Protections disabled' feature

kW & kVAr protection

Reverse power (kW & kVAr) protection

Power monitoring (kWh, kVAr, kVAh, kVArh)

Load switching (load shedding and dummy load outputs)

Unbalanced load protection

Independent Earth Fault trip

Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software

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Enclosure Features

- ✓ Heavy Duty Steel / Aluminum Structure
- E-Stop on Enclosure
- Control Panel Eliminated from Engine Vibrations
- Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

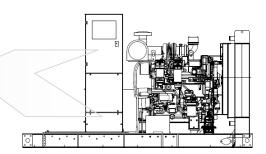
Enclosure Features

- ✓ Internally Mounted Exhaust System with Rain Cap
 - Coolant Fill Cap
- ✓ Removable Base Frame Lifting Hooks
- ✓ Oil & Coolant Drain Ports
- ✓ Easy Access for Maintenance

Open Skid Gen-Set Dimensions

Length 92.1 in Width w/o lift hooks 43.3 in 53.5 in Height

Dry Weight 2600 lb



Enclosed Gen-Set Dimensions - Level 1

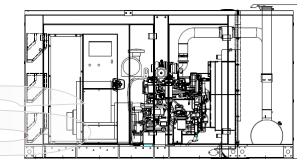
Length 116.5 in

43.3 in Width w/o lift hooks

Height 66.3 in

3800 lb Dry Weight

Sound Pressure @ 7 meters 74 dB(A)



Enclosed Gen-Set Dimensions – Level 2

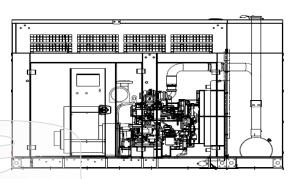
Length 116.5 in

Width w/o lift hooks 43.3 in

82 in Height

Dry Weight 4100 lb

Sound Pressure @ 7 meters 71 dB(A)



Fuel Tank - UL142 Listed Base Design

Size	24hr (190gal)	48hr (390gal)	72hr (590gal)	
Dimensions (L/W/H) (in)	130 / 43.3 / 15.5	130 / 43.3 / 28.5	145 / 43.3 / 36	
Weight (lb)	1260	1750	2180	

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Standard Features & Accessories **Optional Accessories** ✓ UL2200 Certification ☐ Main Line CB (3 / 4 Poles – 80% / 100% rated) Heavy Duty Steel Base Frame Upsize Alternator **PMG** \Box Voltage Regulation $\pm 0.5\%$ w/MX321 AVR **Engine Jacket Water Heater** ■ Anti-condensation Heater **Battery and Battery Rack** ☐ Sub Base Fuel Tank (UL142 / UL2085) **Battery Charger** ☐ Fuel Level Display & Alarm on Controller Anti Vibration Pads between Engine/Alternator & Base Frame ☐ Low / High Fuel Alarms Critical Grade Silencer Inside Enclosure ■ Fuel Water Separator Filter Residential Grade Silencer Set for Open Skid Sets Auto Fuel Fill Control System Exhaust outlet rain cap and radiator fill cap □ Oil Temperature Display on Controller Sound Absorb Foam Material for Enclosure ☐ Manual Speed Adjust Rheostat **Emergency Stop Button** ■ Manual Voltage Adjust Rheostat Oil Drain Valve Remote Annunciator Panel Coolant Drain Valve ☐ Remote Control & Monitoring Panel Jacket Water Heater Isolation Valves Advanced SMS Messaging Flex Fuel Lines Control Panel Heater Air Filter Restriction Gauge ■ Battery Disconnect Switch **Engine Manifold Cover** ■ Battery Heater **Turbocharger Cover** ☐ Battery Charger 10/20 Amp **Protection Covers for Rotating Parts** ☐ Shunt Trip / Aux Contacts **Exhaust Insulation Cover** Spring Anti-vibration Isolators **Enclosure DC Light** Automatic Transfer Panel (ATS)

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24 Months / 2000 hours Limited Standby Warranty

Operations Manual

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Aksa Power Generation **USA & LATAM** a member of

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☐ 5 Years / 2000 hours Limited Comprehensive Warranty