



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
3029 HFG80	UCI224D (Wnd-311)	480/277V	0.8	40kW	60A	36kW	54A
	UCI224D (Wnd-311)	240/120V,	1	40kW	166A	36kW	108A
	UCI224D (Wnd-311)	208/120V	0.8	40kW	140A	36kW	125A
	PI144J (Wnd-17)	600/347V	0.8	40kW	48A	36kW	43A

*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	3029HFG80	Starter Rolling Current @32°F	640 Amps
Displacement & Cylinders	2.9 L / 3 Cylinders	Battery Qty, Rating	1 x 60Ah
Engine Type	In-line, 4 Cycle		
Engine Speed	1800rpm	Cooling System	
Engine Prime Power w/Fan	42kW	Radiator Cooling System Type	Closed Circuit
Engine Standby Power w/Fan	46 kW	Radiator Ambient Temp	> 50 °C
Aspiration	Turbocharged & Air to Air Aftercooled	Coolant Capacity, Engine Only	6 quart
Compression Ratio	17.2:1	Max Top Tank Temp	221 °F
Bore / Stroke	106 mm / 110 mm	Thermostat, Start – Fully Open	180– 201 °F
Governor type	Mechanical		
Engine crankcase vent system	Open	Exhaust System	
Fan Power	2.6 kW	Exhaust Temperature	763 °F
BMEP, Prime Power	932 kPa	Max Allowable Exhaust	7.5 kPa
Fuel System		Restriction	
Combustion System	Direct Injection	Exhaust Gas Flow	9.8 m ³ /min
Governor Type	Mechanical	Lubrication System	
Fuel Injection Pump	Stanadyne DB2	Oil Pressure at Rated Speed	17 psi
Fuel Consumption		Max Crankcase Pressure	0.5 kPa
110% Load	3.53 gal/h	Air Intake System	
100% Load	3.25 gal/h	Engine Air Flow	4.4 m³/min
75% Load	2.58 gal/h	Max Intake Air Restriction (Clean Element)	3.75 kPa
50% Load	1.89 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	± 1 %	Controller Features & Ben	efits
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 La yer Concentric	Modules can be integrated to build	ling management systems
Winding Pitch	Two Thirds	Real time clock provides accurate of	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
Maximum Over speed	2250 rev/min	Support up to three remote display	y modules
		Configurable timers and alarms	
Battery Charger & Electric	cal System Data	Multiple date and timer scheduler	
Manufacturer	ComAp	Integral PLC editor	
Model	InteliCharger	(D	

Input Voltage $85V\sim 264V\,AC$

Output Voltage / Current 13.6V Float / 4.0A pk

Jacket Water Heater Data

Hotstart Manufacturer Input Voltage 120V

Power 500W '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

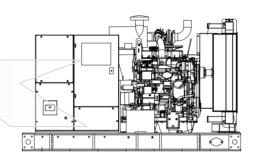
Enclosure Features

- ✓ 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 72 inWidth w/o lift hooks 39.4 inHeight 45.1 in

Dry Weight 1900 lb



Enclosed Gen-Set Dimensions - Level 1

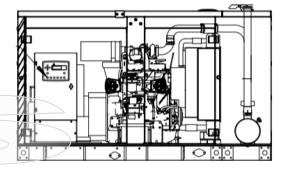
Length 90.1 in

Width w/o lift hooks 42 in

Height 56 in

Dry Weight 2600 lb

Sound Pressure @ 7 meters 74 dB(A)



Enclosed Gen-Set Dimensions – Level 2

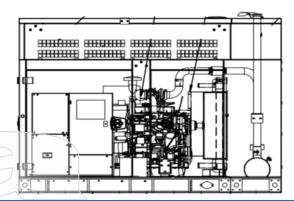
Length 90.1 in

Width w/o lift hooks 42 in

Height 69 in

Dry Weight 2900 lb

Sound Pressure @ 7 meters 70 dB(A)



Fuel Tank - UL142 Listed Base Design

Size	24hr (100gal)	48hr (170gal)	72hr (260gal)
Dimensions (L/W/H) (in)	112 / 39.4 / 12	112 / 39.4 / 18	112 / 39.4 / 26
Weight (lb)	1000	1150	1400

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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**

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Automatic Transfer Panel (ATS)

☐ 5 Years / 2000 hours Limited Comprehensive Warranty

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Operations Manual

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24 Months / 2000 hours Limited Standby Warranty

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