



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.

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General Characteristics		C UL) us
Model Name	APD-ULJ180	THE YMG DROUP LISTED
Engine Make	John Deere	
Engine Model	6068HFG82	1
Alternator Make	Stamford	
Control Panel Make & Model	DSE 732 0	
Frequency & Speed	60Hz, 1800rpm	•
Enclosure Make & Model	AKSA AUL 51/52	

Genset Rating

Engine	Alternator	Voltage	PF	Standby Power	Standby Current	Prime Power	Prime Current
6068 HFG82	UCI274G (Wnd-311)	480/277V	0.8	180kW	270A	162kW	243A
	UCI274G (Wnd-311)	240/120V	0.8	180kW	541A	162kW	487A
	UCI274G (Wnd-311)	208/120V	0.8	180kW	625A	162kW	562A
	UCI274G (Wnd-17)	600/347V	0.8	180kW	216A	162kW	195A

*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. $The above \ ratings \ represent \ the \ engine \ performance \ capabilities \ to \ conditions \ specified \ in \ accordance \ with \ ISO \ 8528/5 \ \& \ ISO \ 3046.$

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 ISC9001 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	6068HFG82	Min Voltage at ECU during crank	6V
Displacement & Cylinders	6.8 L / 6 Cylinders	Battery Qty, Rating	1 x 80Ah
Engine Type	In-line, 4 Cycle		
Engine Speed	1800rpm	Cooling System	
Engine Prime Power w/Fan	194kW	Radiator Cooling System Type	Closed Circuit
Engine Standby Power w/Fan	212 kW	Radiator Ambient Temp	> 50 °C
Aspiration	Turbocharged & Air to Air Aftercooled	Coolant Capacity, Engine Only	12.5 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	Electronic		
Engine crankcase vent system	Open	Exhaust System	
Fan Power	26.5 kW	Exhaust Temperature	961 °F
Designed / Calibrated to Meet	EPA Tier 3	Max Allowable Exhaust Restriction	7.5 kPa
Fuel System		Exhaust Gas Flow	29.9 m ³ /min
Combustion System	L16 Controller		
Governor Type	Electronic	Lubrication System	
Total Fuel Flow	96.1 lb/hr	Oil Pressure at Rated Speed	45 psi
		Max Crankcase Pressure	0.5 kPa
Fuel Consumption		Air Intake System	
110% Load	13.5 gal/h		10.5 3/
100% Load	12.7 gal/h	Engine Air Flow Max Intake Air Restriction	17.5 m ³ /min
75% Load	10.2 gal/h	(Clean Element)	3.75 kPa
50% Load	7.1 gal/h	Air Filter Type	Dry Paper Element

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DSE

Alternator Data		Controller Data	
Manufacturer	Stamford	Manufacturer	I

Standards BS EN 60034 7320 Model

PMG Control System Auto Mains Failure Control Type

A.V.R. MX341

Voltage Regulation \pm 1 %

Class H **Insulation System**

IP23 Protection

Rated Power Factor 0.8

Double Layer Concentric **Stator Winding**

Two Thirds Winding Pitch

Winding Leads 12

Telephone Interference THF < 2 %

Waveform Distortion No Load < 1.5 %

Maximum Over speed 2250 rev/min

Controller Features & Benefits

Microprocessor controlled

License free PC Software

IP65 rating offers increased resistance to water ingress

Modules can be integrated to building management systems

Real time clock provides accurate event log

Four line back-lit LCD text display

Five key menu navigation

Front panel editing with PIN protection

Support up to three remote display modules

Configurable timers and alarms

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)

Unbalanced load protection

Independent Earth Fault trip

Fully configurable via DSE Configuration Suite PC Software

Load switching (load shedding and dummy load outputs)

SCADA monitoring via DSE Configuration Suite PC Software

Battery Charger & Electrical System **D**

Manufacturer ComAp

Model InteliCharger

85V ~ 264V AC Input Voltage

Output Voltage / Current 13.6V Float / 4.0A pk

Jacket Water Heater Data

Manufacturer Hotstart

Input Voltage 120V

1000W Power

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Enclosure Features

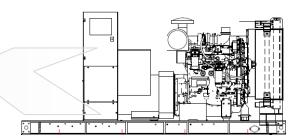
- ✓ Heavy Duty Steel / Aluminum Structure
- E-Stop on Enclosure
- Control Panel Eliminated from Engine Vibrations
- Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

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

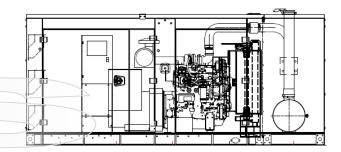
Open Skid Gen-Set Dimensions

Length 115.7 in Width w/o lift hooks 43.3 in 53.5 in Height Dry Weight 4150 lb



Enclosed Gen-Set Dimensions - Level 1

Length 146 in Width w/o lift hooks 43.3 in Height 66.4 in Dry Weight 5650 lb 75 dB(A) Sound Pressure @ 7 meters



Enclosed Gen-Set Dimensions – Level 2

Length 146 in Width w/o lift hooks 43.3 in 82.2 in Height Dry Weight 6050 lb

Sound Pressure @ 7 meters 72 dB(A)

Fuel Tank - UL142 Listed Base Design

Size	24hr (330gal)	48hr (710gal)	72hr (1000gal)
Dimensions (L/W/H) (in)	160 / 43.4 / 20	168 / 43.3 / 36	228 / 43 / 36
Weight (lb)	1700	2500	3130

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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

Aksa Power Generation USA 371 Exchange Street, West Monroe, LA 71292

24 Months / 2000 hours Limited Standby Warranty

Operations Manual

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