

APD-ULJ275



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 APD-ULJ275

Engine Make John Deere

Engine Model 6090HF484

Alternator Make Stamford

Control Panel Make & Model DSE 7320

Frequency & Speed 60Hz, 1800rpm

Enclosure Make & Model AKSA AUL 61/62



Genset Rating

Engine	Alternator	Voltage	Standby Power	Power Factor	Standby Current
6090HF484	HCI434D (Wnd-311)	480 / 277V	275kW	0.8	413A
	HCI434D (Wnd-311)	240 / 120V	275kW	0.8	827A
	HCI434D (Wnd-311)	208 / 120V	275kW	0.8	954A
	HCI434D (Wnd-17)	600 / 347V	275kW	0.8	331A

*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.





















Engine Data		Electric System	
Manufacturer	John Deere	System Voltage	12V / 24V
Model	6090HF484	Min Voltage at ECU during crank	6V for 12V system
Displacement & Cylinders	9 L / 6 Cylinders		10V for 24V system
Engine Type	In-line, 4 Cycle	Battery Qty, Rating	2 x 120Ah
Engine Speed	1800rpm	Cooling System	
Engine Prime Power	284kW	Radiator Cooling System Type	Closed Circuit
Engine Standby Power	315 kW	Radiator Ambient Temp	> 50 °C
Aspiration	Turbocharged & Air to Air Aftercooled	Coolant Capacity, Engine Only	16.9 quart
Compression Ratio	16.0:1	Max Top Tank Temp	230 °F
Bore / Stroke	118.4 mm / 136 mm	Thermostat, Start – Fully Open	180–201 °F
Governor type	Electronic	Exhaust System	
Engine crankcase vent system	Open	Exhaust Temperature	1180°F
Fan Power	25.3kW	Max Allowable Exhaust Restriction	7.5 kPa
BMEP, Standby Power	2333 kPa	Exhaust Gas Flow	2084 ft ³ /min
Friction Power	24kW	Exhaust Gas Flow	2004 it / iiiiii
Designed / Calibrated to Meet	EPA Tier 3	Air Intake System	
Fuel System		Engine Air Flow	901 ft ³ /min
ECU Description	L14 Controller	Max Intake Air Restriction (Clean Element)	3.75 kPa
Max Fuel Inlet Temp.	176 °F	Air Filter Type	Dry Paper Element
Total Fuel Flow	450 lb/hr	·m ·mer iype	Dig ruper Element
Fuel Consumption		Lubrication System	
_	10.01 ml/h	Oil Pressure at Rated Speed	260 kPa
Standby Power (100%)	19.61 gal/h	Oil Pressure at low idle	190 kPa
Standby Power (75%)	16.95 gal/h	Max Oil Carryover in Blow-by	0.007 lb/hr
Standby Power (50%)	12.01 gal/h	Max Crankcase Pressure	0.5 kPa
Standby Power (25%)	6.21 gal/h		

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







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Manufacturer	Stamford
Standards	BS EN 60034
Control System	PMG
A.V.R.	MX341
Voltage Regulation	± 1 %
Insulation System	Class H
Protection	IP23
Rated Power Factor	0.8
Stator Winding	Double Layer Concentric
Winding Pitch	Two Thirds
Winding Leads	12
Telephone Interference	THF < 2 %
Waveform Distortion	No Load < 1.5 %
Maximum Over speed	2250 rev/min

Battery Charger & Electrical System Data

Manufacturer	ComAp
Model	InteliCharger
Input Voltage	85V ~ 264V AC
Output Voltage / Current	27.2V Float / 2.5A pk

Jacket Water Heater Data

Jacket Water Heater Data			
Manufacturer	Hotstart		
Model	CTM15210-N00		
Input Voltage	24V		
Power	1500W		

Controller Data

Manufacturer	DSE
Model	7320 MK II

Controller Features & Benefits

Microprocessor controlled, UL & NFPA110 Compatible
License free PC Software (Non-proprietary 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, two wire start/stop at Auto mode
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
Load switching (load shedding and dummy load outputs)
Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configu	ration Suite PC Software
Protection	Instruments
✓ Gen. Voltage – under / over	✓ Gen. Voltage (L-L/L-N)
✓ Gen. Freq. – under / over	✓ Gen. Frequency
✓ Engine Speed – under / over	✓ Engine speed
✓ Engine Oil Pressure – low	✓ Oil Pressure
✓ Engine Temp $-$ low $/$ high	✓ Water Temperature
✓ Battery Voltage – low / high	✓ Battery Voltage
✓ Weak Battery	✓ Run Time
✓ Fail to Start / Stop	✓ Phase Sequence
✓ Charge Alternator Fail	✓ Power monitoring (kWh/kVAh/kVArh)
✓ Over Current & Load (kW/kVAr)	✓ Power (kWh/kVAh/kVArh)
✓ Unbalanced Load	✓ Power Factor
✓ Independent Earth Fault	✓ Generator Current
✓ Reverse Power	✓ Generator Load (%)
✓ Loss of Speed Signal	✓ Earth Current





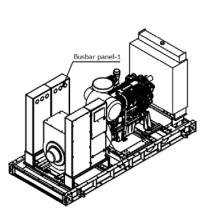
Enclosure Features

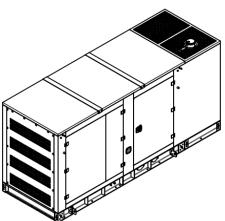
- ✓ Heavy Duty Steel / Aluminum Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

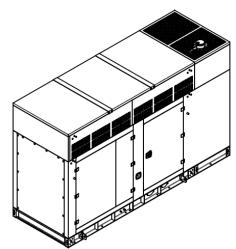
Enclosure Features

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

Open Skid Gen		Level 1 Enclosure		Level 2 Enclosure	
Length	126 in	Length	161.7 in	Length	161.7 in
Width w/o lift hooks	55.1 in	Width w/o lift hooks	57.6 in	Width w/o lift hooks	57.6 in
Height	63.1 in	Height	79.8 in	Height	101.6 in
Dry Weight	5705 lb	Dry Weight	7680 lb	Dry Weight	8740 lb
		Sound Pressure @ 7 meters	79 dB(A)	Sound Pressure @ 7 meters	73 dB(A)







Fuel Tank - UL142 Listed Base Design

Size	24hr (530gal)	48hr (1120gal)	72hr (1600gal)
Dimensions (L/W/H) (in)	182 / 55.1 / 20	195 / 55.2 / 36	267 / 55 / 36
Weight (lb)	2200	3160	3600

APD-ULJ275



Standard Features & Accessories

- ✓ UL2200 Certification
- ✓ Heavy Duty Steel Base Frame
- ✓ PMG w/MX341 AVR
- ✓ Engine Jacket Water Heater
- ✓ Battery and Battery Rack
- ✓ Battery Charger
- ✓ Anti Vibration Pads between Engine/Alternator & Base Frame
- ✓ Critical Grade Silencer Inside Enclosure
- ✓ Residential Grade Silencer Set for Open Skid Sets
- ✓ Exhaust outlet rain cap and radiator fill cap
- ✓ Sound Absorb Foam Material for Enclosure
- ✓ Emergency Stop Button
- ✓ Oil Drain Valve
- ✓ Coolant Drain Valve
- ✓ Jacket Water Heater Isolation Valves
- ✓ Flex Fuel Lines
- ✓ Air Filter Restriction Gauge
- ✓ Engine Manifold Cover
- ✓ Turbocharger Cover
- ✓ Protection Covers for Rotating Parts
- ✓ Exhaust Insulation Cover
- ✓ Enclosure DC Light
- ✓ Operations Manual
- ✓ 24 Months / 2000 hours Limited Standby Warranty

AKSA POWER GENERATION USA LLC

371 Exchange Street, West Monroe, Louisiana, 71292

Tel: 318.855.8377 Fax: 318.855.8381 E-mail: sales@aksausa.com

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Optional Accessories

- ☐ Main Line CB (3 / 4 Poles 80% / 100% rated)
- Upsize Alternator
- ☐ Voltage Regulation ±0.5% w/MX321 AVR
- Anti-condensation Heater
- ☐ Sub Base Fuel Tank (UL142 / UL2085)
- ☐ Fuel Level Display & Alarm on Controller
- Low / High Fuel Alarms
- ☐ Fuel Water Separator Filter
- □ Auto Fuel Fill Control System
- ☐ Oil Temperature Display on Controller
- ☐ Manual Speed Adjust Rheostat
- ☐ Manual Voltage Adjust Rheostat
- ☐ Remote Annunciator Panel
- ☐ Remote Control & Monitoring Panel
- □ Advanced SMS Messaging
- ☐ Control Panel Heater
- Battery Disconnect Switch
- Battery Heater
- ☐ Battery Charger 10/20 Amp
- ☐ Shunt Trip / Aux Contacts
- ☐ Spring Anti-vibration Isolators
- Automatic Transfer Panel (ATS)
- ☐ 5 Years / 2000 hours Limited Comprehensive Warranty

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