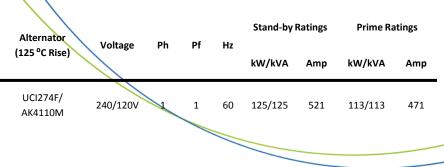
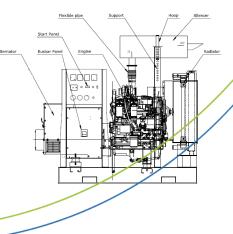
APD-AGJ125

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.





Rating Definition

aksa POWER GENERA

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 & Standard Features

AKSA GENERATION

EPA Certified Tier3 engine powered generator set for Emergency Stationary Applications.

The Generator set is designed and manufactured in a facility certified to **ISO9001:2008** standards.

John Deere heavy duty four cycle industrial diesel engine delivers low emission, reliable power, fuel efficiency and fast response to load changes.

Analog control system provides total gen-set system integrated control, protections, metering, automatic starting/stopping with additional key start switch for easy operation. Aksa Power Generation provides single source responsibility for the generator set & accessories.

The generator set, with its components, are **prototype tested** and **production tested**.

Newage Stamford / AKSA industrial generators meet the requirements of BS EN 60034 and the relevant sections of other international standards such as BS5000, VDE0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359.

Heavy duty base frame with integral pad **vibration isolators** eliminates the need for under unit spring vibration isolators.

POWER YOUR FUTURE

Engi L16 Controller

Denso HP3

Electronic

169

John Deere

4045HF285

4, In-line

	,	
Fuel temp rise, inlet to return; °C	49	
Max fuel inlet temp; ºC	80	
Max fuel inlet restriction; in. H_2O (kPA)	80 (20)	
Max. fuel return pressure; in. H_2O (kPA)	80 (20)	

Max. power @ rated rpm; kWm (BHP) 147 (197) Brake mean effective pressure; kPa 2178 Aspiration & Cooling Turbocharged Total displacement; L (in³) 4.5 (275) Bore; in. (mm) 4.19 (106) Stroke; in. (mm) 5.0 (127) Compression ratio 19:1 Governor type Electronic Engine crankcase vent system Open

AKSA POWER GENERATION

Engine Electrical System

Fuel System

ECU Description

Governor Type

Fuel injection pump

Total fuel flow: lb/hr

Engine Data

Manufacturer

Model

Cylinders

Charging alternator	12V, Negative Ground	
Starter rolling current @32 ⁰ F; (amp)	920	
Min. voltage at ECU during cranking; (d	c) 6	
Max. allowable start circuit resistance; (Ohm) 0.0012		
Starter motor rated voltage; (dc)	12	
Battery quantity x rating & CCA	1 x 80Ah, 800	

Fuel Consumption (gal/hr)

110% Load	9.86
100% Load	9.15
75% Load	7.08
50% Load	5.12

Exhaust System

Exhaust gas flow; (m³/min)	27.0
Max. exhaust restriction; (kPa)	7.5
Max. exhaust gas temp; (ºC)	580
Max. bending moment on turbo outlet; (lb-ft)	5.2

Cooling System

Radiator ambient temp; ºC (ºF)	50 (122)
Engine coolant capacity; L	8.5
Min. coolant fill rate; L/min (gal/min)	11(3)
Thermostat operation range; °C	82-95
Max top tank temp; °C	110
Min. air to boil temp; ^o C	47
Cooling fan type	Pusher
Min. pressure cap; (psi)	14.5
Combustion air flow; m3/min	9.65
Intake manifold pressure; (psi)	25
Engine coolant flow; L/min (gal/min)	180 (48)
Engine heat rejection; BTU/min	4098
Air cleaner efficiency	99.9%

Lubrication System

Oil pressure @rated speed; psi	46
Oil pressure at low idle; psi	15
Max. oil carryover in blow by; lb/hr	0.002
Max. air flow in blow by; gal/min	26
Max. crankcase pressure; in. H ₂ O (kPa)	2 (0.5)

APD-AGJ125

aksa POWER GENERA

Alternator Data

Manufacturer	Stamford/AKSA	
Model		
Stamford	UCI274F	
Aksa	АК4110М	
Design	4 Pole, drip proof rotating field	
Exciter type	Brushless, self excited P.M.G. option is available	
Stator	2/3 winding pitch	
Rotor	Single bearing, flexible disc	
Leads	4	
Voltage regulator	Solid state, Volts/Hz	
Voltage regulation	Self excited 1.5%	
Insulation	Class H	
Temp. rise @ 40°C ambient	125°C Prime	
	150°C Standby	
Alternator Cooling	Direct drive	
	Centrifugal Blower	
Cooling air; m ³ /min	0.108	
Waveform distortion	No load < 1.5%	
Non-distorting balanced linear load <5%		
Max. over-speed; rev/min	2250	
Telephone influence factor (TIF)	<50	
Telephone harmonic factor (THF)<2%		
Sustained short circuit current 10sec with EBS fitted; (amp)		
Stamford – w/PMG	2030	

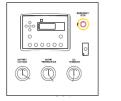
Locked rotor kVA (skVA) @30% voltage dip

	Self Excited	PMG Excited
240/120V - 1ph	345	420

Gen-set Dimension & Weight

L (in.)	96
W (in.)	41
H (in.)	103
Weight (lb)	3300

Control System





APD-AGJ125

Aksa digital control panel with DSE7320 manual and auto controller offering an excellent range of engine monitoring and protection features plus a temper proof engine hours counter.

- Off/Auto/Manual key start switches
- Remote start input
- Engine monitoring and protection
- Oil pressure protection
- Water temperature protection
- Battery voltage alarm
- Charge alternator failure alarm
- Engine over speed protection
- Engine hours counter
- Engine oil pressure and water temperature gauges
- Emergency stop button
- · Additional key start in panel for emergency manual run

Standard Features & Accessories

- Heavy Duty Steel Base-frame
- Anti-vibration pads
- Residential Grade Silencer w/flex connector
- Flex Fuel Line Set -15ft
- Battery, Battery Rack & Cables
- Battery Charger (6 Amp)
- Jacket Water Heater (120V/1000W)
- Operations Manual
- 2 Years / 2000hours Limited Warranty

Optional Accessories

- Main Line CB
- PMG Excitation system
- ATS Panel
- Fuel Tank

AKSA POWER GENERATION USA LLC

371 Exchange Street, West Monroe, LA 71292 Tel: 318.855.8377 Fax: 318.855.8381 E-mail: sales@aksausa.com AKSA Power Generation USA is a member of KAZANCI HOLDING

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