





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 AP327-6 Frequency / PF 60Hz, 1800 rpm, 0.8pf

Engine Make & Model Perkins 1506A-E88TAG3 Alternator Make Stamford

Control Panel Model DSE 7320 Base Frame / Enclosure AKSA MS60

Genset Rating - 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
1506A- E88TAG3	UCDI274J (Wnd-311)	480 / 277V	327kVA	298kVA	393A
	UCDI274J (Wnd-14)	380 / 222V	327kVA	298kVA	496A
	UCDI274K (Wnd-311)	220 / 127V	327kVA	298kVA	858A
	HCI444D (Wnd-311)	208 / 120V	327kVA	298kVA	907A

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 4SO14001:2015 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









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AP327-6



Engine Data		Electric System		
Manufacturer	Perkins	Engine Cranking Motor	24V	
Model	1506A-E88TAG3	Engine Battery Charge System	Negative Ground	
Displacement & Cylinders	8.8 L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 80Ah	
Engine Speed	1800rpm	Buttery &ty, Ruthing, COM		
Engine Standby Power	287 Kw	Cooling System		
Engine Prime Power	254 Kw	Radiator Face Area	$0.49\mathrm{m}^2$	
Aspiration	Air to Air Aftercooled, Turbocharged	Fan Number of Plates/Material	9 / Plastic	
Compression Ratio	16.1 : 1	Total System Capacity	29.6 L 107 °C	
Bore / Stroke	112 mm / 149 mm	Max Top Tank Temperature		
Break Mean Effective Pressure	2250 kPa	Thermostat Range	87 – 98 °C	
Engine Coolant Flow	190 l/min			
Combustion Air Flow	$19.8 \text{ m}^3/\text{min}$	Exhaust System		
Exhaust Gas Flow	$48.9 \text{ m}^3/\text{min}$	Maximum Back Pressure	10 kPa	
Exhaust Gas Temperature	496 °C	Exhaust Outlet Size	TBA	
Overall Thermal Efficiency	42 %	<u>Lubrication System</u>		
Speed Variation at Constant Load	±0.25 %			
Fuel System		Total System Capacity	41 L	
		Minimum Capacity	36 L	
Injection System	Direct	Max Oil Temp	120 °C	
Governor Type	Electronic	Oil Pressure – relief valve opens	662 kPa	
Lift Pump Type	Gear	Oil Consumption at full load as a % of fuel consumption	0.1 %	
Fuel Filter Spacing	4 microns	Energy Balance		
Fuel Consumption		Energy in fuel	688 kW	
Standby Power (110%)	69.8 L/h	Energy in power output – gross	297 kW	
Prime Power (100%)	63.1 L/h	Energy to cooling fan	13 kW	
Prime Power (75%)	47.5 L/h	Energy to coolant and oil	120 kW	
Prime Power (50%)	33.1 L/h	Energy to exhaust	204 kW	

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



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Alternator Data		Controller Data	Controller Data		
Manufacturer	Stamford	Manufacturer	DSE		
Standards	BS EN 60034	Model	7320		
Control System	Self Excited	Type	Auto Mains Failure Control		
A.V.R.	AS440				
Voltage Regulation	\pm 1 %	Controller Feature	Features & Benefits		
Insulation System	Class H	Microprocessor controlle	Microprocessor controlled License free PC Software		
Protection	IP23	License free PC Software			
Rated Power Factor	0.8	0.8 IP65 rating offers increased resista			
Stator Winding	Double Layer Concentric	Modules can be integrate	Modules can be integrated to building management systems		
Winding Pitch	Two Thirds	Real time clock provides	Real time clock provides accurate event log		
Winding Leads	12	Four line back-lit LCD te	Four line back-lit LCD text display		
Telephone Interference	THF < 2 %	Five key menu navigation	Five key menu navigation		
Waveform Distortion	No Load < 1.5 %	Front panel editing with	Front panel editing with PIN protection		
Maximum Over speed	2250 rev/min	Support up to three remo	Support up to three remote display modules		
		Configurable timers and	alarms		
Battery Charger & Elect		Multiple date and timer	Multiple date and timer scheduler		
Manufacturer	AKSA	Integral PLC editor			
Model	SmartGen BAC06A	'Protections disabled' fea	'Protections disabled' feature		
Input Voltage	100V ~ 250V AC	kW & kVAr protection	kW & kVAr protection		
Output Voltage / Current	27,6V DC / 3A	Reverse nower (kW & kV	Reverse power (kW & kVAr) protection		

Jacket Water Heater Data

Manufacturer AKSA

Model HTR300

Input Voltage Based on Gen Voltage

Power 3000W

Power monitoring (kWh, kVAr, kVAh, kVArh)

Reverse power (kW & kVAr) protection

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 Structure
- ✓ E-Stop on Enclosure
- **✓** Control Panel Eliminated from Engine Vibrations
- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges
- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- √ Top Lifting Feature
- ✓ Base Fuel Tank
- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam

Open Skid Gen-Set Dimensions

Length 2750 mm

Width 1300 mm

Height 1777 mm

Dry Weight 2165 kg

Tank Capacity 470 L

CASIL COL. 1125 1125 2750

Enclosed Gen-Set Dimensions

Length 3960 mm

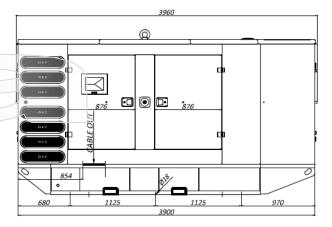
Width 1356 mm

Height 2167 mm

Dry Weight 2900 kg

Tank Capacity 470 L

Sound Pressure @ 7 meters 77 dB(A)



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Standard Features & Accessories **Optional Accessories** ✓ Heavy Duty Steel Base Frame ☐ Main Line CB (3 / 4 Poles) Integral Fuel Tank □ PMG Fuel Drain Plug \Box Voltage Regulation $\pm 0.5\%$ w/MX321 AVR Control Panel Window ■ Anti-condensation Heater **Engine Jacket Water Heater** ■ Double Wall Base Fuel Tank **Battery and Battery Rack** ☐ Fuel Level Display & Alarm on Controller **Battery Charger** ☐ Low / High Fuel Alarms Anti Vibration Pads between Engine/Alternator & Base Frame ■ Fuel Water Separator Filter Residential Grade Silencer Inside Enclosure Auto Fuel Fill Control System Industrial Grade Silencer Set for Open Skid Sets □ Oil Temperature Display on Controller Exhaust pipe rain cap and radiator fill cap ■ Manual Speed Adjust Rheostat Sound Absorb Foam for Enclosure ■ Manual Voltage Adjust Rheostat Air Inlet & Outlet Rodent Guards **□** Remote Annunciator Panel Oil Drain Valve ☐ Remote Control & Monitoring Panel Coolant Drain Valve Advanced SMS Messaging Flex Fuel Lines Control Panel Heater Air Filter Restriction Gauge ■ Battery Disconnect Switch **Engine Manifold Cover** ■ Battery Heater **Turbocharger Cover** ■ 10A Battery Charger **Protection Covers for Rotating Parts** ■ Battery Charge Ammeter **Exhaust Insulation Cover** Tool Kit for Maintenance Control Panel Window Automatic Transfer Panel (ATS) - Contactor Design **Operations Manual** ☐ Automatic Transfer Panel (ATS) – Changeover Design 24 Months / 2000 hours Limited Standby Warranty

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

T: + 1 318 8558377 sales@aksausa.com Aksa Power Generation USA & LATAM a member of Aksa Power Generation LATAM 12320 NW 116th Street, Miami, FL 33178 T: +1786 4936857 sales@aksausa.com

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