



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-NG300

Engine Make PSI

Engine Model 14.6L

Alternator Make Stamford

Control Panel Make & Model DSE 7320

Frequency & Speed 60Hz, 1800rpm

Enclosure Make & Model AKSA AUL 71/72



Genset Rating

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current	LP Gas Standby Power	LP Gas Standby Current
	HCI444D (Wnd-311)	480/277V	0.8	300kW	451A	210kW	315.75A
	HCI444D (Wnd-311)	240/120V	0.8	275W	826A	210kW	631.5A
14.6L	HCI444D (Wnd-311)	208/120V	0.8	275W	953A	210kW	728.65A
	HCI444D (Wnd-17)	600/347V	0.8	300kW	361A	210kW	252.6A

*EPA - Certified for Emergency Stationary Applications

 $Stand-by\ Power\ (Maximum):\ Power\ available\ at\ variable\ load\ in\ the\ event\ of\ main\ power\ network\ failure.\ No\ over\ load\ is\ permitted.$ $Prime\ Power:\ Power\ available\ at\ variable\ load\ in\ lieu\ of\ a\ main\ power\ network.\ Overload\ of\ 10\%\ is\ permitted\ for\ 1\ hour\ in\ every\ 12\ hours\ of\ operation.$ $The\ above\ ratings\ represent\ the\ engine\ performance\ capabilities\ to\ conditions\ specified\ in\ accordance\ with\ ISO\ 8528/5\ \&\ ISO3046.$

 $\label{lem:conditions} \textbf{Derating may be required for conditions outside of the test conditions.}$

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 must be equipped with a fast start kit for NFPA110 Level 1 applications.

















Engine Data			Electric System	
Manufacturer	PSI		System Voltage (dc)	24V
Model	14.6L		Battery Qty, Rating	2 x 120Ah
Displacement & Cylinders	14.6 L / 6	Cylinders	Cooling System	
Engine Type	V-type, 4	Cycle	Radiator Cooling System Type	Closed Circuit
Engine Speed	1800rpm		Coolant Capacity	28 gal
Engine Standby Power NG	342 kW		Cranking Temperature	160°F
Engine Standby Power LP	189 kW			
Aspiration	Turbo Cha	arge Air Cooled	Full Open Temperature	185 °F
Compression Ratio	10.5:1			
Bore / Stroke	128 mm /	142 mm	Туре	Water cooled manifold
Governor type	Electronic		Max. allowable back pressure	10.2 kPa
Fuel System			Max Turbine Inlet Temperature	1382 °F
Fuel Type	NG, LP Ga	ns/Dual Fuel	Exhaust Gas Flow at Rated Power @ 1350 °F	2521 cfm
NG Supply pipe size	1 1/4" NPT	F	Air Intake System	
Maximum EPR Rated Pressure	6.9 kPa / 1	ı.o psi	Combustion Air Required	687 cfm
Recommended Max Pressure	2.7 kPA /	11.0 inH2O	Max Intake Air Restriction (Clean Element)	1.24 kPa / 5 inH2O
Recommended Min Pressure	1.7 kPA / 7	7.0 inH2O	Air Filter Type	Dry Paper Element
Max LPG vapor Pressure to EP	R 2.7 kPA /	11.0 inH2O	All Pitter Type	Dry raper Element
Fuel Consumption			Lubrication System	
	Natural Gas	LP Gas	Oil Specifications	SAE 15W-40 Low Ash Gas Engine oil, API CD/CF or
Standby Power (100%)	3172 cfh 89.7 m³/hr	926 cfh 26.2 m³/hr		higher
Standby Power (75%)	2425 cfh 68.6 m³/hr	790 cfh 22.4 m³/hr	Oil Pan Capacity, Min-Max	26.5 - 32.75 Qts
Standby Power (50%)	1675 cfh 47.5 m³/hr	530 cfh 15.1 m³/hr	Oil filter; qt, type	2, Cartridge
			Min – Max Oil Pressure at Rated Speed	43.5 psi – 94.5 psi 3 bar – 6.5 bar





Alternator Data

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

Battery Charger & Electrical System Data

2250 rev/min

Manufacturer	ComAp
Model	InteliCharger
Input Voltage	85V ~ 264V AC
Output Voltage / Current	13.8V Float / 4A pk

Jacket Water Heater Data

Maximum Over speed

Manufacturer	Hotstart
Model	CTM25210-N00
Input Voltage	240V
Power	2500W

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

Open Skid Gen-Set Dimensions

Length 158 in

Width w/o lift hooks 75 in

Height 65 in

Dry Weight 9100 lb

Enclosed Gen-Set Dimensions – Level 1

Length 206 in

Width w/o lift hooks 77 in

Height 90 in

Dry Weight 13100 lb

Sound Pressure @ 7 meters 79 dBA

Enclosed Gen-Set Dimensions – Level 2

Length 224.6 in

Width w/o lift hooks 77 in

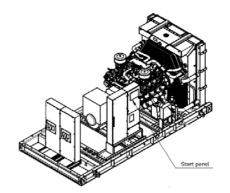
Height 89.9 in

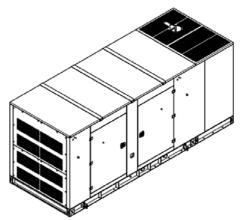
Dry Weight 13500 lb

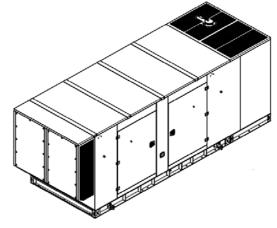
Sound Pressure @ 7 meters 76 dBA

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











Standard Features & Accessories

- ✓ UL2200 Certification
- ✓ Heavy Duty Steel Base Frame
- ✓ PMG
- ✓ 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
- ✓ Secondary Lock-off Valve on Baseframe
- ✓ 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

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Optional Accessories

- ☐ Main Line CB (3 / 4 Poles 80% / 100% rated)
- Upsize Alternator
- Anti-condensation Heater
- ☐ Voltage Regulation ±0.5% w/MX321 AVR
- ☐ Gas Regulator
- ☐ NG / LP Auto Changeover Control System
- ☐ Low Gas Pressure Alarm
- □ Low Coolant Level Alarm
- Oil Pan Heater
- ☐ 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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