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 (Doosan)
Engine Model	14.6L HO
Alternator Make	Stamford
Control Panel Make & Model	DSE 7320
Frequency & Speed	60Hz, 1800rpm
Enclosure Make & Model	AKSA AUL 71/72



UL2200

NG/LP

Genset Rating

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current	LP Gas Standby Power	LP Gas Standby Current
14.6L-HO	HCI444D (Wnd-311)	480/277V	0.8	300kW	451A	170kW	255A
	HCI444D (Wnd-311)	240/120V	0.8	300kW	903A	170kW	510A
	HCI444D (Wnd-311)	208/120V	0.8	300kW	1042A	170kW	590A
	HCI444D (Wnd-17)	600/347V	0.8	300kW	361A	170kW	204A

*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.

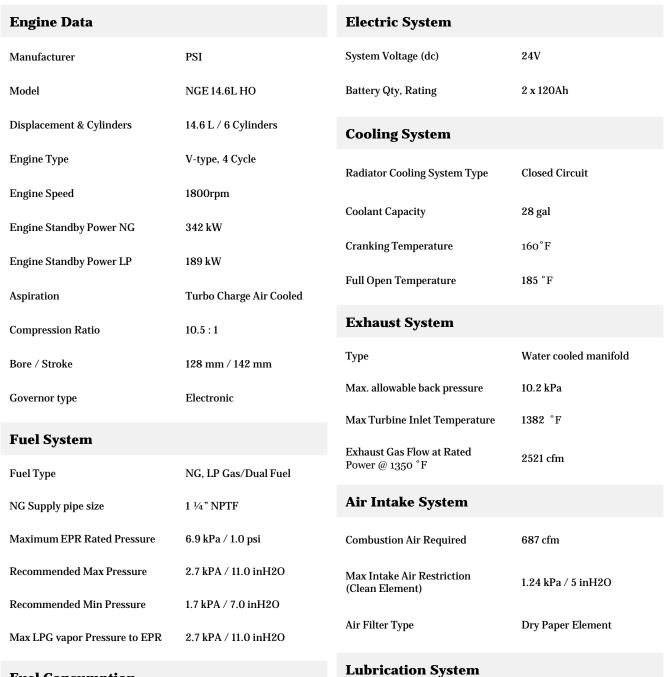
The generator set meets **NFPA70**, **99**, **110**, **37** Level 1 when equipped with the necessary accessories and installed per NFPA standards.



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

APD-NG300





Fuel Consumption

	Natural Gas	LP Gas	Oil Specifications	SAE 15W-40 Low Ash Gas Engine oil, API CD/CF or higher
Standby Power (100%)	3172 cfh 89.7 m³/hr	926 cfh 26.2 m³/hr	Oil Pan Capacity, Min-Max	26.5 - 32.75 Qts
Standby Power (75%)	2425 cfh 68.6 m³/hr	790 cfh 22.4 m³/hr	On Fan Capacity, Min-Max	20.3 - 32.73 QIS
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

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UL2200

NG/LP

APD-NG300

Controller Data





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Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software

✓ Engine Temp – low / high

✓ Loss of Speed Signal

Alternator Data

Alternator Data		controller Data	
Manufacturer	Stamford	Manufacturer	DSE
Standards	BS EN 60034	Model	7320 MK II
Control System	PMG	Controller Features & Benefits	
A.V.R.	MX341	Microprocessor controlled, UL & N	IFPA110 Compatible
Voltage Regulation	\pm 1 %	License free PC Software (Non-proprietary Software)	
Insulation System	Class H	IP65 rating offers increased resista	nce to water ingress
Protection	IP23	Modules can be integrated to build	ing management systems
Protection	1223	Real time clock provides accurate e	event log
Rated Power Factor	0.8	Four line back-lit LCD text display	
Stator Winding	Double Layer Concentric	Five key menu navigation, two wire	e start/stop at Auto mode
Winding Pitch	Two Thirds	Front panel editing with PIN prote	ction
winding Fitch	1wo minus	Support up to three remote display	modules
Winding Leads	12	Configurable timers and alarms	
Telephone Interference	THF < 2 %	Multiple date and timer scheduler	
Waveform Distortion	No Load < 1.5 %	Integral PLC editor	
		'Protections disabled' feature	
Maximum Over speed	2250 rev/min	Load switching (load shedding and	l dummy load outputs)

Battery Charger & Electrical System Data

Manufacturer	ComAp	Protection	Instruments
Model	InteliCharger	✓ Gen. Voltage – under / over	✓ Gen. Voltage (L-L/L-N)
Input Voltage	$85V \sim 264V AC$	✓ Gen. Freq. – under / over	✓ Gen. Frequency
Output Voltage / Current	13.8V Float / 4A pk	✓ Engine Speed – under / over	✓ Engine speed
output tohuge? outfill	10.07 110at / 1A pk	✓ Engine Oil Pressure – low	✓ Oil Pressure

Jacket Water Heater Data

		✓ Battery Voltage – low / high	✓ Battery Voltage
Manufacturer	Hotstart	✓ Weak Battery	✓ Run Time
Model	CTM25110-N00	✓ Fail to Start / Stop	✓ Phase Sequence
Input Voltage	120V	✓ Charge Alternator Fail	 ✓ Power monitoring (kWh/kVAh/kVArh)
r o		 ✓ Over Current & Load (kW/kVAr) 	 ✓ Power (kWh/kVAh/kVArh)
Power 2500W	2500W	✓ Unbalanced Load	✓ Power Factor
		✓ Independent Earth Fault	✓ Generator Current
		✓ Reverse Power	✓ Generator Load (%)

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✓ Water Temperature

Earth Current

✓

APD-NG300



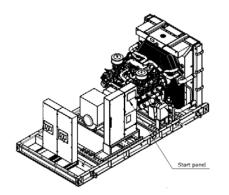


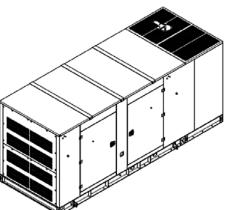
Enclosure Features

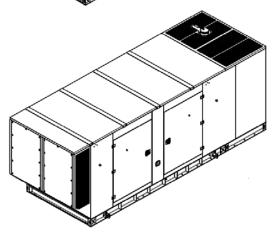
- ✓ Heavy Duty Steel / Aluminum Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

Enclosure Features

- $\checkmark~$ 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	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

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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
- \checkmark 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



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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