**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-NG350
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 71A/72A



UL2200

NG/LP

## **Genset Rating**

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current
	HCI444E (Wnd-311)	480/277V	0.8	350kW	526A
14.6L HO	HCI444E (Wnd-311)	240/120V	0.8	320W	963A
	HCI444E (Wnd-311)	208/120V	0.8	320W	1112A
	HCI444E (Wnd-17)	600/347V	0.8	350kW	421A

### \*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.



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# APD-NG350





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UL2200

NG/LP

# APD-NG350

**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 & Be	enefits		
A.V.R.	MX341	Microprocessor controlled, UL & N	FPA110 Compatible		
Voltage Regulation	$\pm$ 1 %	License free PC Software (Non-proprietary Software)			
Insulation System	Class H	IP65 rating offers increased resistance to water ingress			
	1000	Modules can be integrated to building management systems			
Protection IP23		Real time clock provides accurate 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	start/stop at Auto mode		
Winding Pitch Two Thirds	Front panel editing with PIN protection				
	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	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	13 8V Float / 14 nk	✓ Engine Speed – under / over	✓ Engine speed	
	15.0V 110at / 4A pk	✓ Engine Oil Pressure – low	✓ Oil Pressure	

### **Jacket Water Heater Data**

		✓ Battery Voltage – low / high	$\checkmark$	Battery Voltage
Manufacturer	Hotstart	✓ Weak Battery	✓	Run Time
Model	CTM25210-N00	✓ Fail to Start / Stop	$\checkmark$	Phase Sequence
Input Voltage 240V ✓ Charge Alternator	✓ Charge Alternator Fail	~	Power monitoring (kWh/kVAh/kVArh)	
		<ul> <li>✓ Over Current &amp; Load (kW/kVAr)</li> </ul>	~	Power (kWh/kVAh/kVArh)
Power	2500W ✓	✓ Unbalanced Load	$\checkmark$	Power Factor
		✓ Independent Earth Fault	✓	Generator Current
		✓ Reverse Power	~	Generator Load (%)

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✓ Water Temperature

✓ Earth Current

# APD-NG350



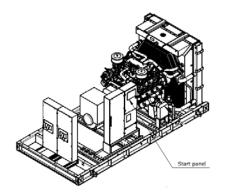


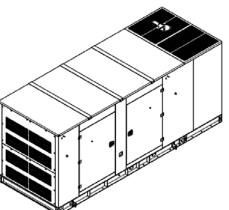
## **Enclosure Features**

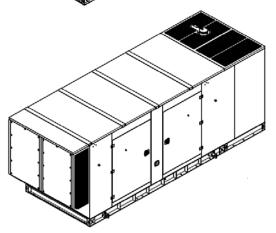
- ✓ Heavy Duty Steel / Aluminum Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

### **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	83 in
Height	87 in
Dry Weight	10500 lb

## Enclosed Gen-Set Dimensions – Level 1

Length	206 in
Width w/o lift hooks	86 in
Height	101 in
Dry Weight	14000 lb
Sound Pressure @ 7 meters	80 dBA

## Enclosed Gen-Set Dimensions – Level 2

Length	224.6 in
Width w/o lift hooks	86 in
Height	101 in
Dry Weight	14500 lb
Sound Pressure @ 7 meters	77 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
- ✓ 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
- D 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

## **DISTRIBUTED BY:**

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