

APD-NG660



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-NG660

Engine Make PSI (Doosan)

Engine Model 32L

Alternator Make Stamford

Control Panel Make & Model DSE 7320

Frequency & Speed 60Hz, 1800rpm

Enclosure Make & Model AKSA AUL 96



Genset Rating

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current
	HCI634G (Wnd-311)	208/120V	0.8	657.7kW	2282.1A
32L	HCI634G (Wnd-311)	240/120V	0.8	657.7kW	1977.7A
	HCI544F (Wnd-311)	480/277V	0.8	661.9kW	995.2A
	HCI544F (Wnd-17)	600/347V	0.8	661.9kW	796.1A

*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.



















Engine Data			Electric System	
Manufacturer	PSI		System Voltage (dc)	24V
Model	32L		Battery Qty, Rating	2 x 143Ah
Displacement & Cylinders	31.8 L / 12	2 Cylinders	Cooling System	
Engine Type	V-type, 4	Cycle	Radiator Cooling System Type	Closed Circuit
Engine Speed	1800rpm		Coolant Capacity	54 gal
Engine Standby Power NG	720kWm		Cranking Temperature	176°F
Engine Standby Power LP	475kW		Full Open Temperature	198 °F
Aspiration	Turbo Cha	arge Air Cooled	Exhaust System	
Compression Ratio	10.5:1		Exilaust System	
Bore / Stroke	150 mm /	150 mm	Туре	Water cooled manifold
Governor type	Electronic	2	Max. allowable back pressure	10.2 kPa
			Turbine Outlet Temperature	1138 °F / 683 °C
Fuel System			Exhaust Gas Flow at Rated Power	3844 cfm
Fuel Type	NG, LP G	as/Dual Fuel		
NG Supply pipe size	3.0" NPTI	7	Air Intake System	
Maximum EPR Rated Pressur	e 6.9kPa		Combustion Air Required	1320 cfm
Recommended Max Pressure	2.7 kPA /	11.0 inH2O	Max Intake Air Restriction (Clean Element)	1.24 kPa / 5inH2O
Recommended Min Pressure	1.7 kPA / '	7.0 inH2O	Air Filter Type	Dry Paper Element
Fuel Consumption			Lubrication System	
	Natural Gas	LP Gas	Oil Specifications	SAE 15W-40 Low Ash Gas Engine oil, API CD/CF or higher
Standby Power (100%)	7989 ft ³ /h 226 m ³ /h	70 gal/h 266 L/h	Oil Capacity, Min-Max	95 – 129 Ots

Speed

52 gal/h

198 L/h

36 gal/h

135 L/h

6213 ft3/h

176 m³/h

4487 ft3/h

127 m³/h

Standby Power (75%)

Standby Power (50%)

Oil Capacity, Min-Max

Min - Max Oil Pressure at Rated

Oil filter; qt, type

95 - 129 Qts

2, Cartridge

47psi – 57 psi

3,24 bar – 3,93 bar

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







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Manufacturer	Stamford
Standards	BS EN 60034
Control System	PMG
A.V.R.	MX321
Voltage Regulation	\pm 0.5 %
Insulation System	Class H
Protection	IP23
Rated Power Factor	0.8
Stator Winding	Double Layer Lap
Winding Pitch	Two Thirds
Winding Leads	12
Telephone Interference	THF < 2 %
Waveform Distortion	0.5 < No Load < 1.5 %

Battery Charger & Electrical System Data

2250 rev/min

Manufacturer	ComAp
Model	InteliCharger
Input Voltage	90V ~ 277V AC
Output Voltage / Current	24V Float / 3A pk

Jacket Water Heater Data

Maximum Over speed

Manufacturer	Hotstart
Model	CKM1060260-000
Input Voltage	240V
Power	6000W

Controller Data

Manufacturer	DSE
Model	7320 MK II

Controller Features & Benefits

Controller reatures & 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)	
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Fully configurable via DSE Configuration Suite PC Software
SCADA monitoring via DSE Configuration Suite PC Software

Protection Instruments

SCADA monitoring via DSE Configuration 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	✓ Power		
(kW/kVAr)	(kWh/kVAh/kVArh)		
✓ Unbalanced Load	✓ Power Factor		
✓ Independent Earth Fault	✓ Generator Current		
✓ Reverse Power	✓ Generator Load (%)		
✓ Loss of Speed Signal	✓ Earth Current		



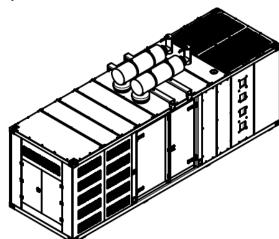


Enclosure Features

- ✓ 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

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



Enclosed Gen-Set Dimensions – Level 1

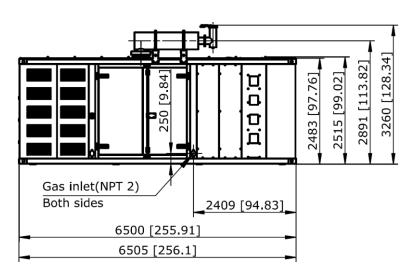
r (1	(. •
Length	256.1 in

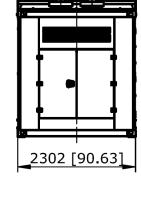
Width w/o lift hooks 91.61 in

Height w/o Silencer 99.02 in

Height with Silencer 129.3 in

Dry Weight 22300 lb





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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
- ✓ Roof-mounted Critical Grade Silencer
- ✓ 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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