

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	APD350C-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Cummins NTA855G1A	Alternator Make	Stamford
Control Panel Model	DSE 7320	Base Frame / Enclosure	AKSA ASM7A

Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
NTA855G1A	HCI444D	480 / 277V	350kVA	320kVA	420A
	HCI444ES	380 / 222V	350kVA	320kVA	531A
	HCI444D	220 / 127V	350kVA	320kVA	918A
	HCI444D	208 / 120V	350kVA	320kVA	971A

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**



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Engine Data

Manufacturer	Cummins
Model	NTA855-G1
Displacement & Cylinders	14L / 6 Cylinders
Engine Speed	1800rpm
Engine Standby Power	291 kW / 390 HP
Engine Prime Power	261 kW / 350 HP
Aspiration	Turbocharged, Aftercooled
Compression Ratio	14.5 : 1
Bore / Stroke	140 mm / 152 mm
BMEP	1663 kPa
Piston Speed	7.62 m/s
Friction Horsepower	22 kW
Engine Water Flow	5 litre/sec.
Intake Air Flow	379 litre/sec.
Exhaust Gas Flow	936 litre/sec.
Exhaust Gas Temperature	498 °C

Electric System

Engine Cranking Motor	24V
Engine Battery Charge System	35A, Negative Ground
Battery Qty, Rating, CCA	2 x 120Ah

Cooling System

Coolant Capacity	60.6 L
Max Coolant Friction Head External to Engine -1500rpm	41 kPa
Thermostat Range	82 – 94 °C
Min Allowable Pressure Cap	48.2 kPa
Max Top Tank Temperature	104 °C

Exhaust System

Max Back Pressure	10 kPa
Standard Exhaust Pipe Size	127 mm
Manifold Insulation	Not Acceptable
Turbocharger Insulation	Not Acceptable

Fuel System

Type of Injection	Direct Injection Cummins PT
Max Restriction to Fuel Pump	13.5 kPa (Clean Filter) 27.1 kPa (Dirty Filter)
Max Fuel Pump Supply	270 litre
Max Fuel Inlet Temperature	71 °C

Air Intake System

Max Intake Air Restriction	6.22 kPa (Dirty Element) 3.74 kPa (Clean Element)
Min Dirt Holding Capacity	53 g/L/s
Max Allowable Intake Air Temp	17 °C

Fuel Consumption

Standby Power (110%)	TBA
Prime Power (100%)	74 L/h
Prime Power (75%)	56 L/h
Prime Power (50%)	40 L/h
Prime Power (25%)	23 L/h

Lubrication System

Max Oil Temperature	121 °C
Oil Capacity : High - Low	36 – 28.4 L
Max Oil Consumption	0.24 L/h
Total System Capacity	38.6 L

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Alternator Data

Manufacturer	Stamford
Standards	BS EN 60034
Control System	Self Excited
A.V.R.	AS440
Voltage Regulation	± 1 %
Insulation System	Class H
Protection	IP23
Rated Power Factor	0.8
Stator Winding	Double Layer Concentric
Winding Pitch	Two Thirds
Winding Leads	12
Telephone Interference	THF < 2 %
Waveform Distortion	No Load < 1.5 %
Maximum Over speed	2250 rev/min

Controller Data

Manufacturer	DSE
Model	7320
Type	Auto Mains Failure Control

Controller Features & Benefits

- Microprocessor controlled
- License free PC 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
- 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
- kW & kVAr protection
- Reverse power (kW & kVAr) protection
- Power monitoring (kWh, kVAr, kVAh, kVArh)
- 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

Battery Charger & Electrical System Data

Manufacturer	AKSA
Model	SmartGen BAC06A
Input Voltage	100V ~ 250V AC
Output Voltage / Current	27,6V DC / 3A

Jacket Water Heater Data

Manufacturer	AKSA
Model	HTR3000W 100-120F
Input Voltage	Based on Genset Voltage
Power	3000W

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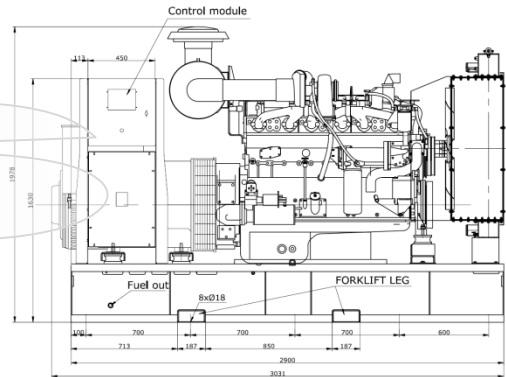
Enclosure Features

- ✓ 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
- ✓ Base Frame Lifting Hooks
- ✓ Base Fuel Tank and Forklift Pockets
- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam



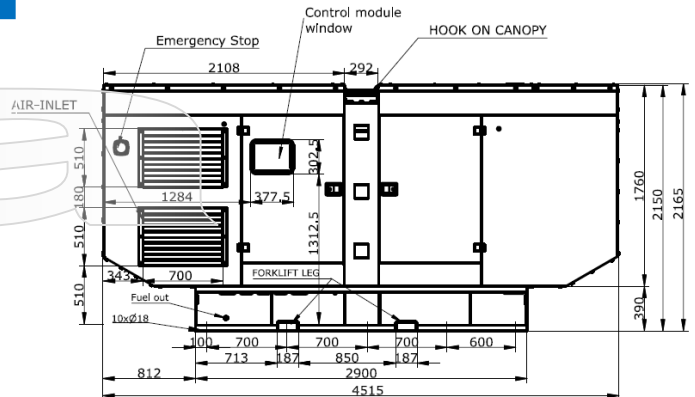
Open Skid Gen-Set Dimensions

Length	3031 mm
Width	1400 mm
Height	1978 mm
Dry Weight	3240 kg
Tank Capacity	526 L



Enclosed Gen-Set Dimensions

Length	4515 mm
Width	1463 mm
Height	2165 mm
Dry Weight	3800 kg
Tank Capacity	526 L
Sound Pressure @ 7 meters	86.4 dB(A)



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Standard Features & Accessories

- ✓ Heavy Duty Steel Base Frame
- ✓ Integral Fuel Tank, Single Wall
- ✓ Fuel Drain Plug
- ✓ Control Panel Window
- ✓ Engine Jacket Water Heater
- ✓ Battery and Battery Rack
- ✓ Battery Charger
- ✓ Radiator fill cap on enclosure
- ✓ Anti Vibration Pads between Engine/Alternator & Base Frame
- ✓ Residential Grade Silencer Inside Enclosure
- ✓ Industrial Grade Silencer Set for Open Skid Sets
- ✓ Sound Absorb Foam for Enclosure
- ✓ Air Inlet & Outlet Rodent Guards
- ✓ Oil Drain Valve
- ✓ Coolant Drain Valve
- ✓ Flex Fuel Lines
- ✓ Air Filter Restriction Gauge
- ✓ Engine Manifold Cover
- ✓ Turbocharger Cover
- ✓ Protection Covers for Rotating Parts
- ✓ Exhaust Insulation Cover
- ✓ Control Panel Window
- ✓ Operations Manual
- ✓ 24 Months / 2000 hours Limited Standby Warranty

Optional Accessories

- Main Line CB (3 / 4 Poles)
- PMG
- Voltage Regulation $\pm 0.5\%$ w/MX321 AVR
- Anti-condensation Heater
- Double Wall Base Fuel Tank
- Fuel Level Display & Alarm on Controller
- Low / High Fuel Alarms
- Fuel Water Separator Filter
- Auto Fuel Fill Control System
- 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
- 10A Battery Charger
- Battery Charge Ammeter
- Tool Kit for Maintenance
- Power Plug Outlet Kit
- Automatic Transfer Panel (ATS) – Contactor Design
- Automatic Transfer Panel (ATS) – Changeover Design

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