



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 APD35C-6 Frequency PF 60Hz, 1800 rpm, 0.8pf

Engine Make & Model Cummins 4B3.9G2 Alternator Make Stamford

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ASM4

Genset Rating – 60Hz, 1800rpm, 0.8pf

| Engine | Alternator | Voltage | Standby Power | Prime Power | Standby Current |
|---------|------------|------------|---------------|-------------|--------------------|
| 4B3.9G2 | PI144F | 480 / 277V | 35kVA | 32kVA | 42A |
| | PI144H | 380 / 222V | 35kVA | 32kVA | 53A |
| | PI144F | 220 / 127V | 35kVA | 32kVA | 91A |
| | PI144G | 208 / 120V | 35kVA | 32kVA | 97A |

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**













| Engine Data | | Electric System | |
|---|------------------------|--|--|
| Manufacturer | Cummins | Engine Cranking Motor | 24V |
| Model | 4B3.9G2 | Engine Battery Charge System | 40A, Negative Ground |
| Displacement & Cylinders | 3.9L / 4 Cylinders | Battery Qty, Rating, CCA | 2 x 54Ah |
| Engine Speed | 1800rpm | Buttery qty, natmig, corr | 2 A O H M |
| Engine Standby Power | 27 kW / 36 HP | Cooling System | |
| Engine Prime Power | 24 kW / 32 HP | Coolant Capacity | 19,2 L |
| Aspiration | Naturally Aspired | Max Coolant Friction Head External to Engine -1500rpm | 28 kPa |
| Compression Ratio | 17.3:1 | Thermostat Range | 82-95 °C |
| Bore / Stroke | 102 mm / 120 mm | Min Pressure Cap | 69 kPa |
| Governor Regulation | ≤ 5% | Max Top Tank Temperature | 104 °C |
| Piston Speed | 6 m/s | | · |
| Friction Horsepower | 8.2 kW | Exhaust System | |
| Engine Water Flow | 2.2 litre/sec. | Max Back Pressure | 10 kPa |
| Intake Air Flow | 33 litre/sec. | Min Exhaust Pipe Size | 75 mm |
| Exhaust Gas Flow | 71 litre/sec. | Manifold Insulation | Not Acceptable |
| Exhaust Gas Temperature | 410 °C | Turbocharger Insulation | Not Acceptable |
| Fuel System | | Air Intake System | |
| Type of Injection | BYC A Direct Injection | Max Intake Air Restriction | 6 kPa (Dirty Element) 4 kPa (Clean Element) |
| Max Restriction @ Lift Pump | 102 mmHg | Min Dirt Holding Capacity | 53 g/cfm |
| Max Allowable Head on Injector Return Line | 508 mmHg | Max Temp Rise from Ambient to Inlet of Turbo | 17 °C |
| Total Drain Flow | 30 L/h | | |
| Fuel Consumption | | Lubrication System | |
| Standby Power (110%) | 9.4 L/h | Max Oil Temperature | 121 °C |
| Prime Power (100%) | 8.6 L/h | Oil Capacity : High - Low | 9.5 L - 8.5 L |
| Prime Power (75%) | 6.8 L/h | Min Required Lube Capacity | 10.9 L |
| Prime Power (50%) | 5.0 L/h | | |
| Prime Power (25%) | 3.6 L/h | | |

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

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Power

APD35C-6



| Alternator Data | | Controller Data | | |
|-------------------------------------|----------------------------|---|----------------------------|--|
| Manufacturer | Stamford | Manufacturer | DSE | |
| Standards | BS EN 60034 | Model | 6020 | |
| Control System | Self Excited | Туре | Auto Mains Failure Control | |
| A.V.R. | AS480 | | | |
| Voltage Regulation | ± 1 % Class H IP21 0.8 | Controller Features & Benefits | | |
| Insulation System | | Microprocessor controlled | | |
| Protection | | License free PC Software IP65 rating offers increased resistance to water ingress Front Panel Editing | | |
| Rated Power Factor | | | | |
| Stator Winding | Double Layer Concentric | | | |
| Winding Pitch | Two Thirds | Event log | | |
| Winding Leads | 12 | Back-lit icon LCD display | | |
| Telephone Interference THF < 2 $\%$ | | LED and LCD alarm indication | | |
| Waveform Distortion | No Load < 1.5 % | Power save mode PC and front panel configuration | | |
| Maximum Over speed | 2250 rev/min | | | |
| | | Configurable timers and alarms | | |
| Battery Charger & Electric | al System Data | Alternative configuration | | |
| Manufacturer | AKSA SmartGen BAC06A | Three phase generator monitoring | | |
| Model | | Current monitoring and protection | | |
| Input Voltage 100V ~ 250V AC | | Power monitoring (kW, kVA, kVAr) | | |
| Output Voltage / Current | 27,6V DC / 3A | Reverse power (kW & kVAr) protection | | |
| Jacket Water Heater Data | | Three phase utility monitoring | | |
| Manufacturer | AKSA | Test feature | | |
| | | Battery voltage monitoring | | |
| Model HTR500W100-120F | | | | |
| Input Voltage | 1 ph, Based on gen voltage | Hours counter | | |

500W

Comprehensive warning or shutdown on fault condition

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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

ACTIVE POWER DIESEL

Open Skid Gen-Set Dimensions

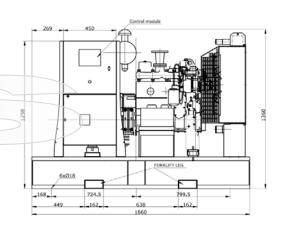
Length 1860 mm

Width 900 mm

Height 1360 mm

Dry Weight 750 kg

Tank Capacity 154 L



Enclosed Gen-Set Dimensions

| Length | 2491 mm | 967.5 (9) 77 |
|---------------------------|----------|--|
| Width | 965 mm | Service Solo Control C |
| Height | 1552 mm | 430 377.5 PI |
| Dry Weight | 1070 kg | 7 Program use |
| Tank Capacity | 154 L | S ROBLITUES |
| Sound Pressure @ 7 meters | 74 dB(A) | 5x519 451 150 1860 |
| | | 2490.6 |

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Standard Features & Accessories **Optional Accessories** ☐ Main Line CB (3 / 4 Poles) ✓ Heavy Duty Steel Base Frame Integral Fuel Tank □ EBS **Fuel Drain Plug** ☐ Anti-condensation Heater Control Panel Window ■ Bulk fuel tank **Engine Jacket Water Heater** ■ Double wall fuel tank **Battery and Battery Rack** ☐ Fuel Level Display & Alarm on Controller **Battery Charger** ■ Low / High Fuel Alarms Radiator fill cap on enclosure Fuel Water Separator Filter Anti Vibration Pads between Engine/Alternator & Base Frame Auto Fuel Fill Control System Residential Grade Silencer Inside Enclosure ☐ Oil Temperature Display on Controller Industrial Grade Silencer Set for Open Skid Sets ■ Manual Speed Adjust Rheostat Sound Absorb Foam for Enclosure Manual Voltage Adjust Rheostat Air Inlet & Outlet Rodent Guards □ Remote Annunciator Panel Oil Drain Valve ☐ Remote Control & Monitoring Panel Coolant Drain Valve Advanced SMS Messaging Flex Fuel Lines Control Panel Heater ■ Battery Disconnect Switch Air Filter Restriction Gauge **Engine Manifold Cover** ■ Battery Heater **Turbocharger Cover** ■ 10A Battery Charger **Protection Covers for Rotating Parts** ■ Battery Charge Ammeter ■ Tool Kit for Maintenance **Exhaust Insulation Cover** Control Panel Window Power Plug Outlet Kit **Operations Manual** ☐ Automatic Transfer Panel (ATS) – Contactor Design 24 Months / 2000 hours Limited Standby Warranty ☐ Automatic Transfer Panel (ATS) – Changeover Design

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Aksa Power Generation USA 371 Exchange Street, West Monroe, LA 71292

371 Exchange Street, West Monroe, LA 71292 T: + 1 318 8558377 sales@aksausa.com Aksa Power Generation
USA & LATAM
a member of
KAZANCI HOLDING

Aksa Power Generation LATAM 12320 NW 116th Street, Miami, FL 33178 T: +1786 4936857 sales@aksausa.com