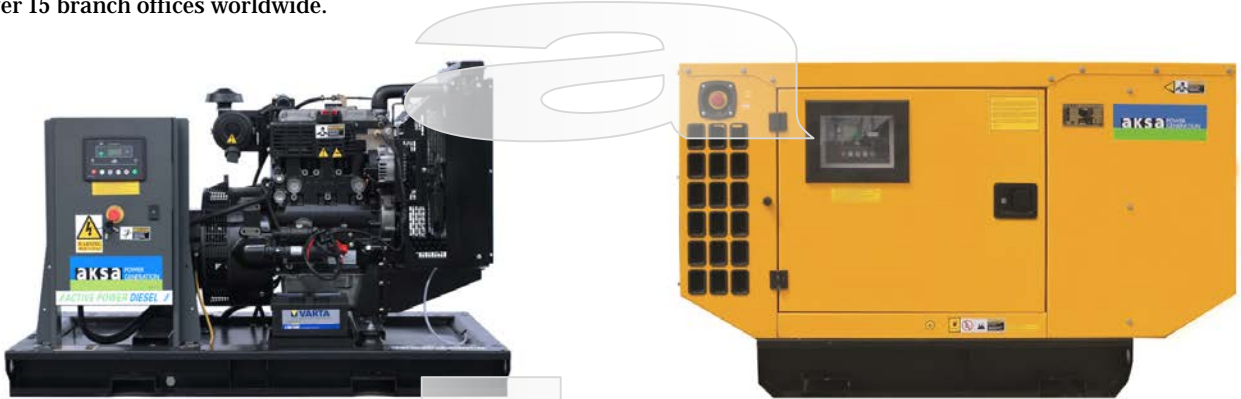


AKSA Power Generation has been producing industrial generator sets with an innovative compact design and excellence in quality for over 30 years. AKSA has been providing reliable power through three main production plants and over 15 branch offices worldwide.



General Characteristics

Model Name	APD13MP-6	Frequency / PF	60Hz, 1800 rpm, 1pf
Engine Make & Model	Perkins 403D-11G	Alternator Make	Stamford
Control Panel Model	DSE 6020	Base Frame / Enclosure	AKSA AK10

Genset Rating – 60Hz, 1800rpm, 1pf, Single phase

Engine	Alternator	Voltage	Standby Power kVA / kW	Prime Power kVA / kW	Standby Current
403D-11G	PI044D	220 / 110V	8.1	7.4	36A

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**



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



Engine Data

Manufacturer	Perkins
Model	403D-11G
Displacement & Cylinders	1.131 L / 3 Cylinders
Engine Speed	1800rpm
Engine Standby Power	11.8 kW
Engine Prime Power	10.7 kW
Aspiration	Naturally aspirated
Compression Ratio	23 : 1
Bore / Stroke	77 mm / 81 mm
Break Mean Effective Pressure	TBA
Engine Coolant Flow	32.5 l/min
Combustion Air Flow	0.9 m ³ /min
Exhaust Gas Flow	2.4 m ³ /min
Exhaust Gas Temperature	515 °C
Overall Thermal Efficiency	31 %
Speed Variation at Constant Load – G2	± 0.75 %

Fuel System

Type of Injection	Indirect Injection
Fuel Injection Pump	Cassette Type
Nozzle Opening Pressure	14.7 Mpa
Fuel Lift Pump Flow/hour	63 liters/hr

Fuel Consumption

Standby Power (110%)	3.63 L/h
Prime Power (100%)	3.04 L/h
Prime Power (75%)	2.36 L/h
Prime Power (50%)	1.71 L/h

Electric System

Engine Cranking Motor	12V
Engine Battery Charge System	Negative Ground
Battery Qty, Rating, CCA	1 x 36Ah

Cooling System

Radiator Face Area	0.147 m ²
Fan Number of Plates/Material	7 / Plastic
Total System Capacity	5.2 L
Max Top Tank Temperature	112 °C
Thermostat Range	75 – 87 °C

Exhaust System

Maximum Back Pressure	10.2 kPa
Exhaust Outlet Size - Vertical	40 mm
Exhaust Outlet Size - Horizontal	34 mm

Air Intake System

Max Intake Air Restriction	3 kPa – Clean filter
Max Intake Air Restriction	6.4 kPa – Dirty filter
Air Filter Type	Dry Element Type

Lubrication System

Total System Capacity	4.9 L
Minimum Capacity	3.4 L
Normal Oil Temp	125 °C
Oil Pressure – relief valve opens	304 – 500 kPa
Recommended SAE Viscosity	API-CH-4 or ACEA E5



Alternator Data

Manufacturer	Stamford
Standards	BS EN 60034
Control System	Self Excited
A.V.R.	AS480
Voltage Regulation	± 1 %
Insulation System	Class H
Protection	IP21
Rated Power Factor	1
Stator Winding	Double Layer Concentric
Winding Pitch	Two Thirds
Winding Leads	4
Telephone Interference	THF < 2 %
Waveform Distortion	No Load < 1.5 %
Maximum Over speed	2250 rev/min

Controller Data

Manufacturer	DSE
Model	6020
Type	Auto Mains Failure Control

Controller Features & Benefits

- Microprocessor controlled
- License free PC Software
- IP65 rating offers increased resistance to water ingress
- Front Panel Editing
- Event log
- Back-lit icon LCD display
- LED and LCD alarm indication
- Power save mode
- PC and front panel configuration
- Configurable timers and alarms

Battery Charger & Electrical System Data

Manufacturer	AKSA
Model	SmartGen BAC06A
Input Voltage	100V ~ 250V AC
Output Voltage / Current	13,8V DC / 6A

- Alternative configuration
- Three phase generator monitoring
- Current monitoring and protection
- Power monitoring (kW, kVA, kVAR)
- Reverse power (kW & kVAR) protection
- Three phase utility monitoring

Jacket Water Heater Data

Manufacturer	AKSA
Model	HTR500W 100-120F
Input Voltage	1 ph, Based on gen voltage
Power	500W

- Test feature
- Battery voltage monitoring
- Hours counter
- Comprehensive warning or shutdown on fault condition

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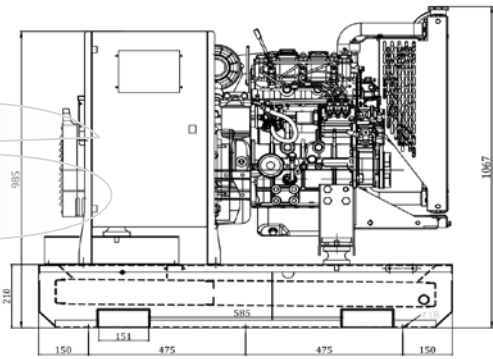
Enclosure Features



- ✓ 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

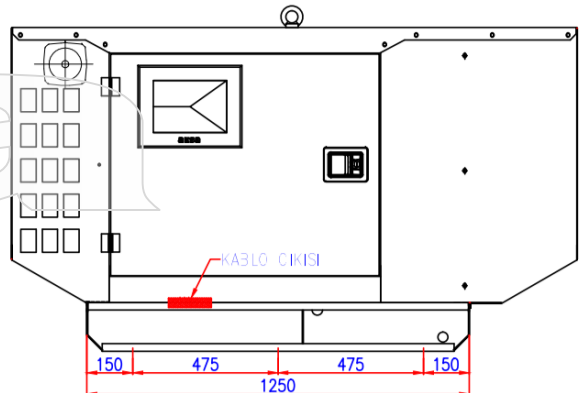
Open Skid Gen-Set Dimensions

Length	1250 mm
Width	850 mm
Height	1020 mm
Dry Weight	425 kg
Tank Capacity	50 L



Enclosed Gen-Set Dimensions

Length	1850 mm
Width	910 mm
Height	1180 mm
Dry Weight	565 kg
Tank Capacity	50 L
Sound Pressure @ 7 meters	66.5 dB(A)



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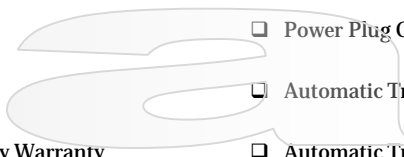
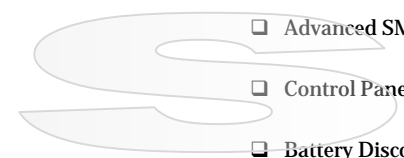
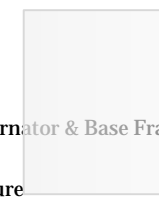
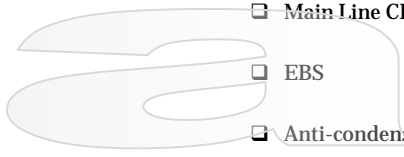


Standard Features & Accessories

- ✓ 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)
- EBS
- Anti-condensation Heater
- Single wall fuel tank – 24hours capacity
- Double wall fuel tank – 24hours capacity
- 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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