

AP563-6



40 IPESA

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	AP563-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Perkins 2506A- E15TAG1	Alternator Make	Stamford
Control Panel Model	DSE 7320	Base Frame / Enclosure	AKSA MS8o / AK9o

Genset Rating - 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
2506A- E15TAG1	HCI544C	480 / 277V	563kVA	512.5kVA	677A
	HCI544D	380 / 222V	563kVA	512.5kVA	855A
	HCI544C	220 / 127V	563kVA	512.5kVA	1477A
	HCI544C	208 / 120V	563kVA	512.5kVA	1562A

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		Electric System		
Manufacturer	Perkins	Engine Cranking Motor	24V	
Model	2506A-E15TAG1	Engine Battery Charge System	Negative Ground	
Displacement & Cylinders	15.2 L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 120Ah	
Engine Speed	1800rpm	battery Qty, Kating, CCA		
Engine Standby Power - Net	490 Kw	Cooling System		
Engine Prime Power - Net	435 Kw	Radiator Face Area	1,238 m ²	
Aspiration	Air to Air Aftercooled, Turbocharged	Fan Number of Plates/Material	9 / B3WG6 or PA6GF30	
Compression Ratio	16:1	Total System Capacity	58 L	
Bore / Stroke	137 mm / 171 mm	Max Top Tank Temperature	107 °C	
Break Mean Effective Pressure	2284 kPa	Thermostat Range	88 – 98 °C	
Engine Coolant Flow	7.2 l/sec	The Thostat Tanige	00 40 0	
Combustion Air Flow	38 m³/min	Exhaust System		
Exhaust Gas Flow	105.3 m³/min	Maximum Back Pressure	6.8 kPa	
Exhaust Gas Temperature	550 °C	Exhaust Outlet Size	127 mm	
Overall Thermal Efficiency	43 %	Lubrication System		
Speed Variation at Constant Load	±0.25 %	Total System Capacity	62 L	
Fuel System		Minimum Capacity	45 L	
Injection System	MEUI	Max Oil Temp	114 °C	
Governor Type	Electronic	Lubricating Oil Specifications	API-CH4 / SAE 15W-40	
Lift Pump Type	Gear	Oil Consumption at full load as a % of fuel consumption	0.1%	
Fuel Filter Spacing	10 microns / 2 microns			
Primary/Secondary	To inicions / 2 inicions	Energy Balance		
Fuel Consumption		Energy in fuel	1175 Kw	
Standby Power (110%)	116 L/h	Energy in power output – gross	514 kW	
Prime Power (100%)	102 L/h	Energy to cooling fan & restrictions	24.4 kW	
Prime Power (75%)	78 L/h	Energy to coolant and oil	156 kW	
Prime Power (50%)	53 L/h	Energy to exhaust	350 kW	



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Alternator Data

Manufacturer Stamford

Standards BS EN 60034

Control System Self Excited

A.V.R. AS440

Voltage Regulation \pm 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

Battery Charger & Electrical System Data

Manufacturer AKSA

Model SmartGen BACo6A

Input Voltage $100V \sim 250V AC$

Output Voltage / Current 27,6V DC / 3A

Jacket Water Heater Data

Manufacturer AKSA

Model HTR3000

Input Voltage Based on Gen Voltage

Power 3000W

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





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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

Enclosure Features

- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Top Lifting Feature
- ✓ Base Fuel Tank
- ✓ Easy Access for Maintenance

Open Skid Gen-Set Dimensions

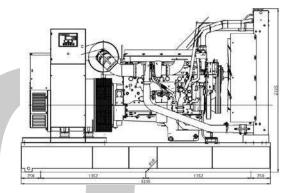
Length 3265 mm

Width 1550 mm

Height 2105 mm

Dry Weight 3650 kg

Tank Capacity 850 L



Enclosed Gen-Set Dimensions @480/380v Conf.

Length 4810 mm

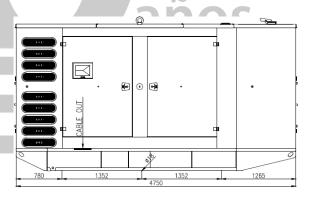
Width 1610 mm

Height 2620 mm

Dry Weight 4800 kg

Tank Capacity 850 L

Sound Pressure @ 7 meters TBA



Enclosed Gen-Set Dimensions @208/220v Conf.

Length 6500 mm

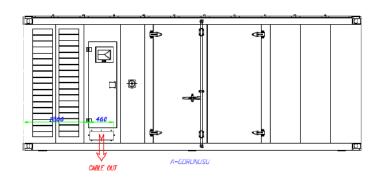
Width 2200 mm

Height 2353 mm

Dry Weight 7600 kg

Tank Capacity 1500 L

Sound Pressure @ 7 meters TBA







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Standard Features & Accessories

- ✓ Heavy Duty Steel Base Frame
- Integral Fuel Tank
- Fuel Drain Plug
- Control Panel Window
- Engine Jacket Water Heater
- Battery and Battery Rack
- **Battery Charger**
- Anti Vibration Pads between Engine/Alternator & Base Frame
- Residential Grade Silencer Inside Enclosure
- Industrial Grade Silencer Set for Open Skid Sets
- Exhaust pipe rain cap and radiator fill cap
- 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 ±0.5% w/MX321AVR
- Anti-condensation Heater
- ☐ Stand Alone Bulk 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
- ☐ Automatic Transfer Panel (ATS) Contactor Design
- ☐ Automatic Transfer Panel (ATS) Changeover Design

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

SEDE PRINCIPAL:

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