



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.

<image/>					
General Chara					
Model Name	AVP505-6		Frequency / PF	60Hz, 1800	rpm, 0.8pf
Engine Make & M	Iodel Volvo TAD13	44GE	Alternator Make	Stamford	
Control Panel Mo	odel DSE 7320		Base Frame / Enclosure	e AKSA MS70	/ MS85
Genset Rating – 60Hz, 1800rpm, 0.8pf					
Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
	HCI444FS (Wnd-311)	480 / 277V	505kVA	459kVA	607A
TAD1344GE	HCI444F (Wnd-14)	380 / 222V	505kVA	459kVA	767A
	HCI444F (Wnd-311)	220 / 127V	505kVA	459kVA	1325A
	HCI444F (Wnd-311)	208 / 120V	500kVA	455kVA	1388A

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**



AVP505-6

AKSA POWER GENERATION DIESEL GENERATING SETS

40. IPESA

Engine Data		Electric System	
Manufacturer	Volvo Penta	Engine Cranking Motor	24V
Model	TAD1344GE	Engine Battery Charge System	Negative Ground
Displacement & Cylinders	12.78 L / 6 Cylinders	Battery Qty, Rating, CCA	2 x 120Ah
Engine Speed	1800rpm	Dattery Qty, Natilig, COM	2 x 12011
Engine Standby Power	449 Kw	Cooling System	
Engine Prime Power	410 kW	Standard Radiator Core Area	0.8 m ²
Aspiration	Turbocharged	Pressure Cap Setting	70 kPa
Compression Ratio	18.1 : 1	Coolant Capacity	24 L
Bore / Stroke	131 mm / 158 mm	Max Top Tank Temperature	107 °C
Effective Mean Pressure	2.3 Mpa	Thermostat Range	82– 92 °C
Max Combustion Pressure	18.1 Mpa	Inerniostat Kaige	02-92 C
Total Mass Moment of Inertia	3.43 kgm²	Exhaust System	
Friction Power	44 Kw	Exhaust Gas Temp	490 °C
Wet Weight – Engine Only	1325 kg	Max Allowable Back Pressure	10 kPa
Wet Weight – w/Cooling System	1790 kg	Exhaust Gas Flow	82 m³/min
Sound Pressure at Rated Power	102.3 dB(A)	d	105
Fuel System		Air Intake System	
Injector Pump Type	Delphi E3	Air Consuption	33 m³/min
System Supply Flow	130 L/h	Max Intake Air Restriction	5 kPa
System Return Flow	18 L/h	Air Filter Type	Dry Paper Element
Max Allowable Inlet Fuel Temp	50 °C		
Max Anowable finet Fuel Temp	50 C	Lubrication System	
Fuel Consumption		Total System Capacity	36 L
Standby Power (110%)	106.7 L/h	Sump Capacity Max / Min	30 L / 19 L
Prime Power (100%)	97.0 L/h	Max Oil Temp	130 °C
Prime Power (75%)	72.4 L/h	Oil Pressure at Rated Speed	370 – 520 kPa
Prime Power (50%)	49.4 L/h	Oil Consumption	0.05 L/h
Prime Power (25%)	27.6 L/h	- a concemption	
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AKSA POWER GENERATION

AVP505-6



KSA POWER GENERATIC	DN		
Alternator Data		Controller Data	
Manufacturer	Stamford	Manufacturer	DSE
Standards	BS EN 60034	Model	7320
Control System	Self Excited	Туре	Auto Mains Failure Control
A.V.R.	SX440		
Voltage Regulation	\pm 1 %	Controller Features	s & Benefits
insulation System	Class H	Microprocessor controlle	d
Protection	IP23	License free PC Software	
Rated Power Factor	0.8	IP65 rating offers increas	ed resistance to water ingress can
Stator Winding	Double Layer Concentric	be integrated to building	management systems Modules
Winding Pitch	Two Thirds	Real time clock provides	accurate event log
Winding Leads	12	Four line back-lit LCD tex	xt display
Felephone Interference	THF < 2 %	Five key menu navigation	1
Waveform Distortion	No Load < 1.5 %	Front panel editing with l	PIN protection
Maximum Over speed	2250 rev/min	Support up to three remo	te display modules
		Configurable timers and a	alarms NOS
Battery Charger & Elect	rical System Data	Multiple date and timer s	scheduler
Manufacturer	AKSA	Integral PLC editor	
Model	SmartGen BACo6A	'Protections disabled' feat	ture
Input Voltage	100V ~ 250V AC	kW & kVAr protection	
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kV.	Ar) protection
Jacket Water Heater Da	ta	Power monitoring (kWh,	kVAr, kVAh, kVArh)
Manufacturer	AKSA	Load switching (load shee	dding and dummy load outputs)
Model	HTR4000	Unbalanced load protecti	on
nput Voltage	Based on Genset Voltage	Independent Earth Fault	trip
Power	4000W	Fully configurable via DS	E Configuration Suite PC Software
		SCADA monitoring via D	SE Configuration Suite PC Software

AVP505-6





DIESEL

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

Open Skid Gen-Set Dimensions

Length	2934 mm
Width	1550 mm
Height	1923 mm
Dry Weight	3210 kg
Tank Capacity	700 L

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

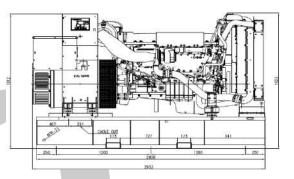
Length			4460 mm	
Width			1606 mm	
Height			2477 mm	_
Dry Weight			4240 kg	
Tank Capacity			700 L	
Sound Pressure	e @ 7 mete	ers	79 dB(A)	

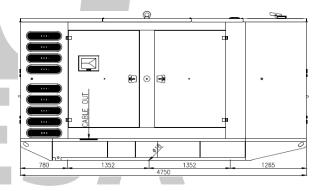
Enclosed Gen-Set Dimensions @208/220V Conf.

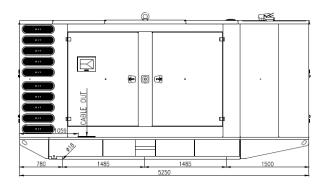
Length	5250 mm
Width	1605 mm
Height	2656 mm
Dry Weight	5400 kg
Tank Capacity	1000 L
Sound Pressure @ 7 meters	TBD

Enclosure Features

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







AVP505-6

Optional Accessories

□ Main Line CB (3 / 4 Poles)

Anti-condensation Heater

Double Wall Base Fuel Tank

□ Low / High Fuel Alarms

Fuel Water Separator Filter

Auto Fuel Fill Control System

Manual Speed Adjust Rheostat

Manual Voltage Adjust Rheostat

Remote Annunciator Panel

Advanced SMS Messaging

Battery Disconnect Switch

Control Panel Heater

Battery Heater

IOA Battery Charger

Battery Charge Ammeter

Tool Kit for Maintenance

Remote Control & Monitoring Panel

Oil Temperature Display on Controller

□ Voltage Regulation ±0.5% w/MX321AVR

□ Fuel Level Display & Alarm on Controller

PMG

GENERATING SETS

DIESEL

Standard Features & Accessories

✓ Heavy Duty Steel Base Frame

AKSA POWER GENERA

- ✓ 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 SkidSets
- ✓ 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
- □ Automatic Transfer Panel (ATS) Changeover Design

□ Automatic Transfer Panel (ATS) – Contactor 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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