INTRODUCTION

Aksa power generation system, providing optimum performance, and reliability, for stationary standby, prime power, and continuous duty applications. All generator sets are factory build, and production tested.

General Characteristics

Model Name	AVP 824-6
Frequency (Hz)	60
Fuel Type	Diesel
Engine Made and Model	VOLVO - TWD1645GE - Tier 2 (60Hz)
Alternator Made and Model	Stamford - HCI 634 G - 60Hz
Control Panel Model	DSE 7320
Canopy	MS 85

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	

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480/277	809	647.20	736	588.80	973.10
380/220	804	643.20	732	585.60	1221.59
208/120	806	644.80	734	587.20	2237.30

STANDBY RATING (ESP) : Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528-1. Overload is not allowed.

PRIME RATING (PRP) : Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528-1. 10 % overload capability is available for a period of 1 hour within 12-hour perod of operation.

ENGINE SPECIFICATIONS

Engine		VOLVO
Engine Model		TWD1645GE - Tier 2 (60Hz)
NO. OF CYLINDERS AND BUILD		6 cylinders - in line
BORE AND STROKE	**mm**	144 X 165
TOTAL DISPLACEMENT	**L**	16,12
Aspiration		Turbocharged with Intercooling and Aftercooling
COMPRESSION RATIO		16.8:1

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RATED SPEED (RPM)	**d/dk**	1500
OIL CAPACITY	**L**	48
Standby Power (kW/HP)		715/973
Prime Power		653/889
Block Heater QTY		1
Block Heater Power (Watt)		3000
Fuel Type		Diesel
Injection Type and System		Direct
Type of Fuel Pump		Delphi E3
Governor System		Volvo / EMS 2.3

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Operating Voltage (Vdc)		24 Vdc
Battery and Capacity (Qty/Ah)		2x120
Charge Alternator (A)		Bosch / 80
Cooling Method		Water Cooled
Cooling Fan Air Flow (m3/min)		804
Coolant Capacity (engine only / with radiator) (lt)		25/151.1
Air Filter		Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)		149

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Fuel Cons. Prime With %75 Load (lt/hr)			
		114.1	
Fuel Cons. Prime With %50 Load (lt/hr)			
		79.9	

ALTERNATOR SPECIFICATIONS

Manufacturer		Stamford
Alternator Made and Model		HCI 634 G - 60Hz
Frequency (Hz)	**Hz**	60
Power (kVA)	**kVA**	633,4
DESIGN		4 Pole, Brushless
VOLTAGE	**V**	380
Phase		3
A.V.R.		MX341
Voltage Regulation	**(+/-)**	1

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Insulation System		H
Protection		IP23
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		1965
COOLING AIR (m^3/min)	**m^3**	117,6

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
Image not found or type unknown	4550	3465	1550	2255	1000
CANOPY	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
MS 85 Image not found or type unknown	5800	5282	1605	2504	1000

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STANDART SPECIFICATIONS

Water cooled, Diesel engine
Radiator with mechanical fan
Protective grille for rotating and hot parts
Electric starter and charge alternator
Starting battery (with lead acid) including rack and cables
Engine coolant heater
Base frame design incorporates an integral fuel tank and anti-vibration isolators
Flexible fuel connection hoses
Single bearing, class H alternator
Industrial exhaust silencer and steel bellows supplied separately(for open sets)
Static battery charger
Manual for application and installation
Generators Sets' voltage and frequency regulation comply with ISO 8528-5

OPTIONAL EQUIPMENTS

ENGINE
• Remote Radiator Cooling
• Fuel-Water Seperator Filter
• Oil heater
ALTERNATOR
• Anti-Condensation Heater
• PMG excitation + AVR
• Main line circuit breaker
CONTROL SYSTEM
• Automatic synchronising and power control system (multi gen-set Parallel)
• Paralel system with mains.
• Transition synchronization with mains
• Remote relay output
• Alarm output relays
• Remote communication with modem
• Earth fault, single set
• Charge Ammeter
TRANSFER SWITCH
• Three or four pole contactor
• Three or four pole motor operated circuit breaker
OTHER ACCESSORIES
• Main Fuel Tank
• Automatic or manual fuel filling system

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- Manual oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Supplied with oil and coolant - 30 °C

INTRODUCTION

Sound-attenuated and weather-protective enclosures for generating sets from Aksa, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

STANDARD SPECIFICATIONS

Compact footprint, low profile design.
Enclosure, generator set, exhaust system and fuel tank are pre-assembled, pre-integrated and shipped as one package
Body made from steel components treated with polyester powder coating
Fire retardant foam insulation
Easy access to all service points
Exhaust system inside canopy
Large doors on each side
Control panel viewing window in a lockable access door
Emergency stop push button mounted on enclosure exterior
Cooling fan and battery charging alternator fully guarded
Fuel fill and battery can only be reached via lockable access doors.
Lifting points on the top of canopy and base frame
Customer options available to meet your application's needs.
Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

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CANOPY MODEL		MS 85
WIDTH	**mm.**	1605
LENGTH	**mm.**	5282
HEIGHT	**mm.**	2504
TANK CAPACITY (lt.)	**Lt.**	1000

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