



## 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.

### Certificate

TS ISO 8528

TS ISO 9001-2008

CE

SZUTEST

2000/14/EC

### General Characteristics

<b>Model Name</b>	AD 490
<b>Frequency (Hz)</b>	50
<b>Fuel Type</b>	Diesel
<b>Engine Made and Model</b>	HYUNDAI - P158LE
<b>Alternator Made and Model</b>	Aksa - AK 6371
<b>Control Panel Model</b>	DSE 7320
<b>Canopy</b>	MS 70 TRP

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.


**3 Phase, 50 Hz, PF 0.8**

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	485	388.0	425	340.0	700.06

**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 period of operation.

**ENGINE SPECIFICATIONS**

<b>Engine</b>		HYUNDAI
<b>Engine Model</b>		P158LE
<b>NO. OF CYLINDERS AND BUILD</b>		8 cylinders - V type
<b>BORE AND STROKE</b>	<b>mm</b>	128 X 142
<b>TOTAL DISPLACEMENT</b>	<b>L</b>	14.618
<b>Aspiration</b>		Turbo Charged and Intercooled (Air to Air)

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<b>COMPRESSION RATIO</b>		15.0:1	
<b>RATED SPEED (RPM)</b>	<b>d/dk</b>	1500	
<b>OIL CAPACITY</b>	<b>L</b>	21	
<b>Standby Power (kW/HP)</b>		414/563	
<b>Prime Power</b>		363/494	
<b>Block Heater QTY</b>			
		1	
<b>Block Heater Power (Watt)</b>			
		3000	
<b>Fuel Type</b>			
		Diesel	
<b>Injection Type and System</b>			
		Direct	
<b>Type of Fuel Pump</b>			
		WEIFU in-line "P" type	



<b>Governor System</b>			
		Electronic	
<b>Operating Voltage (Vdc)</b>			
		24 Vdc	
<b>Battery and Capacity (Qty/Ah)</b>			
		2x120	
<b>Charge Alternator (A)</b>			
		45	
<b>Cooling Method</b>			
		Water Cooled	
<b>Cooling Fan Air Flow (m3/min)</b>			
		522	
<b>Coolant Capacity (engine only / with radiator) (lt)</b>			
		22/65.1	
<b>Air Filter</b>			
		Dry Type	



<b>Fuel Cons. Prime With %100 Load (lt/hr)</b>			
		89.3	
<b>Fuel Cons. Prime With %75 Load (lt/hr)</b>			
		65.1	
<b>Fuel Cons. Prime With %50 Load (lt/hr)</b>			
		43.9	

**ALTERNATOR SPECIFICATIONS**


<b>Manufacturer</b>		Aksa
<b>Alternator Made and Model</b>		AK 6371
<b>Frequency (Hz)</b>	<b>Hz</b>	50
<b>Power (kVA)</b>	<b>kVA</b>	464
<b>DESIGN</b>		Brushless
<b>VOLTAGE</b>	<b>V</b>	400
<b>Phase</b>		3

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<b>A.V.R.</b>		SX440
<b>Voltage Regulation</b>	<b>(+/-)</b>	1
<b>Insulation System</b>		H
<b>Protection</b>		IP23
<b>Rated Power Factor</b>		0.8
<b>WEIGHT COMP. GENERATOR (Kg)</b>		1263
<b>COOLING AIR (m<sup>3</sup>/min)</b>	<b>m<sup>3</sup></b>	62.1

**SIZE and WEIGHT**

<b>Open Type</b>	<b>DRY WEIGHT (kg.) (kg.)</b>	<b>LENGTH (mm.)</b>	<b>WIDTH (mm.)</b>	<b>HEIGHT (mm.)</b>	<b>TANK CAPACITY (lt.) (Lt.)</b>
	3170	2900	1550	2062	700
<b>CANOPY</b>	<b>DRY WEIGHT (kg.) (kg.)</b>	<b>LENGTH (mm.)</b>	<b>WIDTH (mm.)</b>	<b>HEIGHT (mm.)</b>	<b>TANK CAPACITY (lt.) (Lt.)</b>



MS 70 TRP



4190

4434

1606

2518

700

### 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

### OPTIONAL EQUIPMENTS

#### ENGINE

- Fuel-Water Seperator Filter
- Oil heater

#### ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

#### CONTROL SYSTEM

- Automatic synchronising and power control system ( multi gen-set Parallel )
- Paralel system with mains.
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

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**TRANSFER SWITCH**

- Three Pole Contactor
- Four Pole Contactor
- Three or four pole motor operated circuit breaker

**OTHER ACCESSORIES**

- Main Fuel Tank
- Automatic or manual fuel filling system
- 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
- Trailer
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis