



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

Model Name	AD 580
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	HYUNDAI - DP158LD
Alternator Made and Model	Aksa - AK 6450
Control Panel Model	DSE 7320
Canopy	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	580	464.0	525	420.0	837.18

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

Engine		HYUNDAI
Engine Model		DP158LD
NO. OF CYLINDERS AND BUILD		8 cylinders - V type
BORE AND STROKE	mm	128 X 142
TOTAL DISPLACEMENT	L	14.618
Aspiration		Turbo Charged and Intercooled (Air to Air)

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COMPRESSION RATIO		15.0:1	
RATED SPEED (RPM)	d/dk	1500	
OIL CAPACITY	L	22	
Standby Power (kW/HP)		510/693	
Prime Power		464/630	
Block Heater QTY			
		1	
Block Heater Power (Watt)			
		3000	
Fuel Type			
		Diesel	
Injection Type and System			
		Direct	
Type of Fuel Pump			
		WEIFU in-line "P" type	



Governor System			
		Electronic	
Operating Voltage (Vdc)			
		24 Vdc	
Battery and Capacity (Qty/Ah)			
		2x120	
Charge Alternator (A)			
		45	
Cooling Method			
		Water Cooled	
Cooling Fan Air Flow (m3/min)			
		700	
Coolant Capacity (engine only / with radiator) (lt)			
		20/79.1	
Air Filter			
		Dry Type	



Fuel Cons. Prime With %100 Load (lt/hr)			
		115.1	
Fuel Cons. Prime With %75 Load (lt/hr)			
		83.4	
Fuel Cons. Prime With %50 Load (lt/hr)			
		55.1	


ALTERNATOR SPECIFICATIONS

Manufacturer		Aksa
Alternator Made and Model		AK 6450
Frequency (Hz)	Hz	50
Power (kVA)	kVA	563
DESIGN		Brushless
VOLTAGE	V	400
Phase		3



A.V.R.		SX440
Voltage Regulation	(+/-)	1
Insulation System		H
Protection		IP22
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		1393
COOLING AIR (m³/min)	m³	62.1

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
	3390	3104	1550	2062	700
CANOPY	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)



MS 70 TRP



4240

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 Separator 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)
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set

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- Charge Ammeter

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
- Electrical 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
- Automatic transfer switch