



DIESEL POWERED GENERATING SETS

aksa POWER
GENERATION

**630
825 kVA**

**504
660 kW**



Generating Set Model	Power Pf.0.8	
	400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
AD 630	630	575
AD 710	710	640
AD 750	750	680
AD 825	825	750

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. Contact us for the other running periods.

STANDARD GENSET SPECIFICATIONS

ENGINE

- DOOSAN heavy duty diesel engine
- Four stroke, water cooled, turbocharged charge air cooled
- Direct injection fuel system
- Electronic governor control system
- 24 V.D.C. starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter
- Cooling radiator and fan
- Starter battery (with lead acid) including Rack and Cables
- Flexible fuel connection hoses and oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater
- Manual for application and installation

ALTERNATOR

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation class H
- Standard degree of protection IP21
- Self-exciting and self-regulating
- Impregnation with tropicalized epoxy varnished
- Stator winding with 2/3 pitch for improved harmonics
- Solid state Automatic Voltage Regulator
- Close voltage regulation

CHASSIS

- Steel chassis and antivibration pads
- Base frame design incorporates an integral fuel tank
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank

CANOPY

- All canopy parts are designed with modular principles
- Without welding assembly
- Lockable doors on each side.
- Panel window
- All metal canopy parts are painted by electrostatic polyester powder paint
- Thermally insulated engine exhaust system
- Exterior emergency stop push button.
- Easy lifting and moving
- Easy maintenance and operation

QUALITY STANDARDS

The equipment meets the following standards:
IEC 34-1, ISO 3046, VDE 0530, BS 4999, BS 5000.
The generating sets are manufactured by a full accredited ISO 9001 Szutest.

SZUTEST



TS EN ISO 9001:2008

CONTROL SYSTEM

1) Auto. Mains Failure control panel - P732

Control, supervision and protection panel is mounted on the gen-set base frame. The control panel is equipped as follows:

Equipments:

- Control with DSE, model 7320 module
- Static battery charger
- Emergency stop push button.

a) Control Module DSE 7320 Features

- The module monitors a mains supply and controls a standby generating set with automatic transfer switch
- Module indicates operational status and fault conditions by means of its LCD display
- Microprocessor controlled
- Front panel programming and also via PC software
- 132 x 64 pixel LCD display makes information easy to read
- Soft touch membrane keypad and five key menu navigation
- Remote communication via RS 232, RS 485 and Ethernet and SMS messaging
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler

Controls

Stop - Manual - Auto - Test - Start - Mute/Lamp test -
Transfer to generator - Transfer to mains - Menu navigations buttons

b) Instruments via LCD display

Engine

- Oil pressure (PSI & Bar)
- Temperature (°C & °F)
- Speed RPM
- Run time
- Battery volts
- Maintenance due

Mains

- Volts (L-L / L-N)
- Frequency (Hz)

c) Protections

Warning

- Charge failure
 - Battery under voltage
 - Fail to stop
 - Low fuel level (opt.)
 - kW over load
 - Negative phase sequence
 - Loss of speed signal
- ###### Pre-alarms
- Low oil pressure
 - High engine temperature
 - Low engine temperature
 - Over/Under speed
 - Under/over generator frequency
 - Under/over generator voltage
 - ECU warning

d) Led Indication

- Mains available
- Mains on load
- Generator available
- Generator on load

2) Power Outlet Terminal Board Mounted on the Genset Baseframe

Generator

- Volts (L-L / L-N)
- Currents (L1, L2, L3)
- Frequency (Hz)
- kW
- Cosφ
- kVA, kVAR,
- kWh, kVAh, kVARh
- Phase sequence

Shut Downs

- Fail to start
 - Emergency stop
 - Low oil pressure
 - High engine temperature
 - Low coolant level
 - Over/under speed
 - Under/over generator frequency
 - Under/over generator voltage
 - Oil pressure sensor open
 - Phase rotation
- ###### Electrical trip
- Earth fault
 - kW over load
 - Generator over current
 - Negative phase sequence



DSE 7320

DIESEL GENERATING SETS 400 / 230 V - 50Hz

GROUP

DIESEL ENGINE

Model		AD 630	AD 710	AD 750	AD 825
Power Pf. 0,8	Standby	kVA 630	710	750	825
		kW 504	568	600	660
	Prime	kVA 575	640	680	750
		kW 460	512	544	600
Engine Make		DOOSAN			
Model		DP180LA	DP180LB	DP222LB	DP222LC
Gross Engine Power Output at rated rpm	kW	552	612	664	723
	HP	740	820	890	969
Aspiration and Cooling		Turbocharged & Change Air Cooled			
Total Displacement	Liter	18,273		21,927	
No. of Cylinders and Build		10 - V		12 - V	
Engine Speed	rpm	1500			
Bore ve Stroke	mmxmm	128 x 142			
Compression Ratio		15,0:1			
Governor		Elektronik			
Fuel Consumption	1/2	64,8	71,2	73	79,3
	L/h Load 3/4	94,2	103,8	109,2	119,1
	Full	123,6	136,4	147,1	161
Fuel Tank Capacity	Liter	850	850	1000	
Oil Capacity	Liter	34	34	40	
Coolant Capacity	Liter	112,2	112,2	134,8	
Radiator Cooling Air	m³/min	700	700	860	
Air intake - Engine	m³/min	33,2	36	42,2	45
Exhaust Gas Flow	m³/min	106	118	101	108
Exhaust Gas Temperature	°C	562	587	481	502

*Standby (%110) load

Open Type

Dimensions (Lenght x Width x Height)	m	3,26 x 1,55 x 2,06	3,36 x 1,55 x 2,06	3,49 x 1,55 x 2,3	3,63 x 1,55 x 2,3
Dry Weight	kg	3720	4000	4190	4320

Sound Attenuated Type

Canopy Model		MS 80	MS 85
Dimensions (Lenght x Width x Height)	m	4,81 x 1,61 x 2,62	5,3 x 1,61 x 2,66
Dry Weight	kg	4835	4940
		5400	5535

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

Optional Equipments

Diesel Engine

- Oil heater

Alternator

- 3 pole output circuit breaker
- Anti-condensation heater

Panel

- Charge ammeter
- Transfer switch 3 pole
- Transfer switch 4 pole
- Earth fault, single set
- Automatic synchronising and power control

Accessories

- Bulk fuel tank
- Automatic or manual fuel filling system
- Fuel - water separator filter
- Manual oil sump drain pump
- Low fuel level alarm
- Residential silencer
- Enclosure or soundproof canopy
- Trailer
- Tool kit for maintenance



Aksa makes its sound attenuated generator sets sound pressure level tests in accordance with Directive 2000/14/EC validation of the sound level test has been approved by the notified body szutest

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