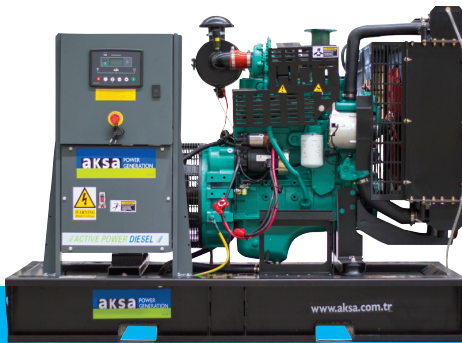


AKSA POWER DIESEL GENERATING SETS



25
70 kVA

20
56 kW



Generating Set Model	Power Pf.0,8 400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
APD 25 A	25	23
APD 33 A	33	30
APD 40 A	40	36
APD 50 A	50	45
APD 70 A	70	64

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

- Heavy duty diesel engine
- Four stroke, water cooled
- Mechanical governor control
- Direct injection fuel system
- 12 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 manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater (at automatic models)
- Manual for use 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 tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator

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
- Emergency stop push button is installed outside of canopy
- Easy lifting and moving
- Easy maintenance and operation

QUALITY STANDARDS

- The generating sets have been designed to meet ISO 9001 Certificate.

CONTROL SYSTEM

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

1. Auto. Mains Failure Control Panel - P 602

Panel equipments:

- Control with DSE, model 6020 module
- Static battery charger
- Emergency stop push button

a) DSE 6020 Module Features:

- Automatic control generating set start and stop
- 3 phase generator and mains voltage monitoring
- Transfer between mains and generator power
- Scrolling digital LCD display
- 4-line, 64x132 graphic display with LED backlight
- Front panel configuration of timers and alarm trip points
- Easy push button control
- STOP/RESET - MANUAL - AUTO - TEST - START
- LCD display Scroll push-button
- Page button
- Remote start
- Micro processor controlled

b) Metering via LCD Display:

- Generator Volt (L-L, L-N)
- Generator Ampere (L1, L2, L3)
- Generator Frequency (Hz)
- Event log(5) events
- Engine hours run
- Engine oil pressure (PSI)
- Engine speed RPM
- Engine cooling temperature (°C)
- Plant battery volts
- Mains Volts (L-L, L-N)
- Mains frequency (Hz)

c) Protections

Shutdowns

- Under/Over Speed
- Over current electrical trip
- Engine low oil pressure
- High coolant temperature
- Over current
- Fail to start
- Under/over generator frequency
- Under/over generator voltage
- Emergency stop
- Oil pressure sensor open
- Coolant temperature sensor open

Warning

- Under/Over generator voltage
- Over/under generator frequency
- Over/under speed
- Engine low oil pressure
- High coolant temperature
- Battery high/low voltage
- Charge alternator failure
- Fail to stop

d) LED Indications:

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



DSE 6020

DIESEL GENERATING SETS 400 / 230 V - 50Hz

GROUP

Model		APD 25 A	APD 33 A	APD 40 A	APD 50 A	APD 70 A
Power Pf. 0,8	Standby	kVA 25 kW 20	33 26,4	40 32	50 40	70 56
	Prime	kVA 23 kW 18,4	30 24	36 28,8	45 36	64 51,2

DIESEL ENGINE

Engine Make		Akso				
Model		A4CRX25	A4CRX25T	A3CRX32T	A4CRX47	A4CRX46T
Gross Engine Power Output (at rated rpm)	kW	24,2	29,7	36	48	68
	HP	32,4	39,8	48,2	64,3	91
Aspiration and Cooling		Natural	Turbo Charged		Natural	Turbo Charged
Total Displacement	Liter	2,54		3,117	4,95	4,58
No. of Cylinders and Build		4 - Inline		3 - Inline	4 - Inline	
Engine Speed		rpm1500				
Bore ve Stroke	mmxmm	90 x 100		105 x 120	108 x 135	108 x 125
Compression Ratio		18:1		17:1		
Governor		Mechanic				
Fuel Consumption at prime load	L/h.	5,5	6,8	8,7	11,1	17,1
Fuel Tank Capacity	Liter	95		82	154	154
Oil Capacity	Liter	8,5		11	14	14
Coolant Capacity	(radiator and engine) Liter	20		16,5	20	20
Radiator Cooling Air	m³/min.	180		120	180	
Air intake - Engine	m³/min.	1,9	2,4	4,3	3,1	6,3
Exhaust Gas Flow	m³/min.	5	6,1	11,2	8,3	16,2

Open Type

Dimensions (Length x Width x Height)	m	1,5 x 0,9 x 1,1		1,73 x 0,9 x 1,14	1,86 x 0,9 x 1,34	1,88 x 0,9 x 1,34
Dry Weight	kg.	665	680	892	960	1060

Sound Attenuated Type

Dimensions (Length x Width x Height)	m	1,93 x 0,96 x 1,21		2,27 x 0,97 x 1,28	2,5 x 0,96 x 1,54	
Dry Weight	kg.	895	910	1100	1280	1380

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

Optional Equipments

Diesel Engine

- Remote radiator

Alternator

- 3 pole output circuit breaker
- Anti-condensation heater

Panel

- Charge ammeter
- Transfer switch 3 pole
- Transfer switch 4 pole
- Earth fault. single set

Accessories

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



Akso 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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