

39 - 90 kVA / **31 - 72** kW **CUMMINS** POWERED

GENERATING SETS

DESIGN SPECIFICATIONS

- ✓ High quality, reliable, long life and complete power unit
- ✓ Compact design
- ✓ Easy start and maintenance possibility
- ✓ Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing
- ✓ Full engineered with a wide range of options and accessories: Electrical, mechanical, soundproof canopy and mobile units



231/400 V-50 Hz	Generating Set Model		AC 39	AC 55	AC 66	AC 70	AC 90
Power Pf. 0,8	Standby	kVA	39	55	66	70	90
	Prime	kVA	35	50	60	63	80

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046, BS 5514.

Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO 3046, BS 5514.

Contact us for the other running periods.

STANDARD GENSET SPECIFICATIONS

ENGINE

- CUMMINS heavy duty diesel engine
- · Four cycle, water cooled, turbo charged
- Mechanical Governor Control System
- Electronic Governor on AC 90
- · Direct injection fuel system
- 12 Vdc 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 sump oil drain valve
- Industrial capacity exhaust silencer and steel bellow
- Jacket water heater (at automatic models)
- Operation manuals and circuit diagrams documents

ALTERNATOR

- · Brushless, single bearing system, 4 poles
- Insulation class H
- Standart degree of protection IP21
- Self-exciting and self-regulating
- Stator windings with 2/3 pitch
- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator

CHASSIS

- The complete generating set is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/alternator feet and the base frame
- 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
- · Forklift pockets within base frame

CANOPY

- All canopy parts are designed with modular principles
- · Without welding assembly
- All metal canopy parts are painted by electrostatic polyester powder paint
- Exhaust silencer is protected agains environment influences
- Thermally insulated engine exhaust system
- Emergency stop push button is installed outside of canopy
- Easy lifting and moving
- Easy mainteneance and operation

QUALITY STANDARDS

• The equipment meets the following standards: ISO 3046, VDE 0530, BS 4999, BS 5000, IEC 34. The generating set is manufactured by a full accredited **NQA ISO 9001**.

CONTROL SYSTEMS

- Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows: Common instruments
- 3 Ampere meters
- Engine oil pressure gauge
- Engine coolant temperature gauge
- Emergency stop push button

1) Auto Mains Failure Control Panel - P 200

- Control with GEN-XFER module
- Static battery charger
- Thermally delayed over load protection
- a) Control module features
- Protection, control and metering
- Automatic generator start / stop
- Automatic shutdown on fault condition
- LED status and fauld indication
- Simple push-button controlled operation Off / Auto / Manuel / Test / Program modes
- · Fully programmable
- RS 232 communication port
- Mains / Generator / Load transfer control

b)Failure LED indicators

- High engine temperature
- Fail to start
- Low oil pressure
- Over speedOver current
- Generator voltage failureCharge alternator failure
- Battery fail
- Emergency stop
- c) Measurement values
- Mains voltage

Exercise time

- Generator frequency
- Maintenance hour
- Generator voltage
 Rupping time
- Running time
- Battery voltage

2) Manual Start Control Panel - ME 40

- Control with 701 K module
- Volt frequency meter (by LED)
- · Hours run meter
- a) Failure LED indicators
- · High engine temperature
- · Low oil pressure
- Over speed
- · Charge failure
- 2-1 Alternator Circuit Breaker (for Manual Model)



GEN - XFFR

DSE 701



TECHNICAL DATA

		DIE	SEL G	ENERATING	3 SE 15 231/	400 V - 50	HZ	
		MODEL		AC 39	AC 55	AC 66	AC 70	AC 90
GROUP		Standby	kVA	39	55	66	70	90
	Power	Staridby	kW	31	44	52,8	56	72
	Pf. 0,8	Prime	kVA	35	50	60	63	80
			kW	28	40	48	50,4	64
Engine make Model				Cummins	Cummins	Cummins	Cummins	Cummins
			4 B 3,3-G1	4 BT 3,3-G2	4 BT 3,9-G4	4 BT 3,9-G4	4 BTA 3,9-G3	
	Gross Engin	Gross Engine Power Output		36	51	64	64	81
	(at rated rpr	(at rated rpm)		48	68	85	85	108
	Air Cooling Cubic Capacity Litre Cylinders and Build Rated Engine Speed rpm		Natural Aspiration	Turbo charged	Turbo charged	Turbo charged	Turbo After cooled	
			3,3	3,3	3,92	3,92	3,92	
			4 - in line	4 - in line	4 - in line	4 - in line	4 - in line	
Z			1500	1500	1500	1500	1500	
ט	Bore and Stroke mmxmm			95x115	95x115	102 x 120	102 x 120	102 x 120
	Compression Ratio			18,2:1	17:1	16,5:1	16,5:1	16,5:1
ESEL E	Governor Ty	Governor Type		Mechanical	Mechanical	Mechanical	Mechanical	Electronic
	Fuel Consumption		Load	1/2 3/4 Full	1/2 3/4 Full	1/2 3/4 Full	1/2 3/4 Full	1/2 3/4 Full
		L/hr	4,5 6,2 8,4	5,9 8,4 11,5	8 11 15	8 11 15	9 14 18	
_	Fuel Tank Ca	apacity	Litre	170	170	170	170	170
Δ	Total Oil Ca	pacity	Litre	7,5	8	11	11	11
	Coolant Capacity (radiator and Engine) Litre		12	15	19,2	19,2	20	
	Radiator Co	oling Air	m³/min	110	82	136	136	136
	Air Intake - I	Engine	m³/min	2,1	3	4,3	4,3	5,1
	Exhaust Gas	Flow	m³/min	6,5	8,2	11	11	10
	Exhaust Gas	Temperature	°C	450	475	518	518	563
	Heat Radiate	ed to Ambient	kW	10	12	17,6	17,6	16
Alternator Voltage Regulation			± 1 %	± 1 %	± 1 %	± 1 %	± 1 %	

Open Type						
Dimensions (length x width x height)	m	1,86x0,9x1,3	1,86x0,9x1,3	1,86x0,9x1,32	1,86x0,9x1,32	1,86x0,9x1,32
Dry weight	kg	700	775	850	880	940

	ASM4	ASM4	ASM4	ASM4	ASM4
m	2,5x0,97x1,57	2,5x0,97x1,57	2,5x0,97x1,57	2,5x0,97x1,57	2,5x0,87x1,57
kg	1050	1125	1200	1230	1300
		m 2,5x0,97x1,57	m 2,5x0,97x1,57 2,5x0,97x1,57	m 2,5x0,97x1,57 2,5x0,97x1,57 2,5x0,97x1,57	m 2,5x0,97x1,57 2,5x0,97x1,57 2,5x0,97x1,57

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

OPTIONAL EQUIPMENTS

- Electronic governor control system (except AC 90)
- Fuel-water separator filter
- Automatic fuel filling system
- Engine oil heater
- Nanual sump oil drain pump
- Residental silencer

- Sow fuel level alarm
- Charge voltmeter
- Charge ammeter
- Anti condensation heater for alternator
- Main fuel tank
- 3 pole alternator circuit breaker (only for automatic models)
- 4 pole contactor
- ∾ Tool Kit
- Over sized alternator
- Automatic transfer switch by contactor or motorized circuit breaker

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Aksa Jeneratör Sanayi A.S.

Gülbahar Caddesi No: 2 34212 Günesli - Istanbul / Turkey Tel: +90 212 478 66 66 (pbx) Fax: +90 212 651 60 40 www.aksa.com.tr E-mail: aksa@aksa.com.tr