

AC 150

**aksa** POWER GENERATION



230/400 V - 50 Hz	Generating Set Model	AC 150
Power Pf. 0,8	Standby kVA	150
	Prime kVA	135

**Standby:**Continuous running at variable load running position.It can run to main energy auxiliary.No overload is permitted on these ratings. In accordance with BS 5514, ISO 3046

**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. In accordance with ISO 8528, ISO 3046.

### DESIGN SPECIFICATIONS

- High quality, reliable 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:Canopy,soundproof and on road trailer

### STANDARD GENSET SPECIFICATIONS

#### ENGINE:

- **CUMMINS** heavy duty diesel engine
- Four cycle, water cooled, turbo charged
- Mechanical Governor Control System
- Electronic Governor on AC 160
- Direct injection fuel system
- 12 Vdc starter and charge alternator
- Replaceable cylinder liners
- 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 diagram documents

#### ALTERNATOR:

- Brushless, single bearing system, 4 poles
- Insulation class H
- Standard degree of protection IP21
- Self-exciting and self-regulating
- Solid state automatic voltage regulator
- Screen protected and drip proof

- Impregnation with tropicalized epoxy varnished
- Stator winding with 2/3 pitch for improved harmonics

#### 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
- Forklift pockets within baseframe

#### CANOPY:

- All canopy parts are designed with modular principles
- Without welding assembly
- To enable for lifting, easy maintenance and operation
- All metal canopy parts are painted by electrostatic polyester powder paint
- Exhaust silencer is protected against environmental influences
- Emergency stop push button is installed outside of canopy
- Modular canopy can also be installed at a later date
- Easy maintenance and operation
- Easy lifting and moving

#### QUALITY STANDARDS:

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

#### WARRANTY:

- 12 months warranty from commissioning date as standard.

#### CONTROL SYSTEM:

- Control, supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows;
- **Common Instruments**
- 3 Ammeter
- 1 Hour run meter
- 1 Volt-Frequency (by LED) and selector switch
- Engine oil pressure gauge
- Engine coolant temperature gauge
- Emergency stop push button
- **1- Auto start Control System - P500**
- Control with DSE 704 Module
- Static battery charger
- Thermally delayed overload protection
- Engine water heater control
- a) DSE 704 Module Features
- Three phases mains sensing
- Engine protection
- Automatic engine starting and stopping
- Simple push button controlled operation (Stop-Reset / Manual / Auto)
- Micro processor based design
- Configurable via front panel
- Configurable timer settings

- Adjustable mains fail voltage level
- Mains / Generator, change over-contactor control
- External remote start input
- b) Status and Fault Conditions Displayed by LED Illumination:
- High engine temperature shutdown
- Low oil pressure shutdown
- Over speed shutdown
- Charge alternator fault warning
- Indication for mains / generator and their contactor status
- **2- Manual Control System - ME 40**
- Control with DSE 701 Module
- a) DSE 701 Module Features
- Engine supervision and protection
- Key switch off/manual start positions
- Manual start pushbutton
- b) Module Emergency LED'S
- High engine temperature shutdown
- Low oil pressure shutdown
- Over speed, shutdown
- Charge failure warning
- 2-1 Circuit Breaker (manual modal)

TECHNICAL DATA										
Diesel Generating Sets 230/400 V - 50 Hz										
G R O U P	MODEL			AC 150						
	Power Pf. 0,8			150 120						
				135 108						
D I E S E L  E N G I N E	Engine Make			Cummins						
	Model			6CT 8.3 G2						
	Gross engine power output at rated rpm		kWm hp	135 181						
	Aspiration and Cooling			Turbo charged						
	Cylinders Capacity		Lt	8.3						
	Cylinders and Build			6 In line						
	Engine Speed		rpm	1500 rpm						
	Bore and Stroke		mmxmm	114x135						
	Compression Ratio			16.8:1						
	Governor			Mechanical						
	Fuel Consumption		Load L/hr	<table border="1"> <tr> <td>1/2</td> <td>3/4</td> <td>Full</td> </tr> <tr> <td>15</td> <td>22</td> <td>30</td> </tr> </table>	1/2	3/4	Full	15	22	30
	1/2	3/4	Full							
	15	22	30							
Fuel Tank Capacity		Lt	370							
Oil Capacity		Lt	23.8							
Water Capacity		Lt	36							
Air Intake - Engine		m <sup>3</sup> /min	9.5							

Exhaust Gas Flow	m <sup>3</sup> /min	25.3
Alternator Voltage Regulation		± %1

OPEN TYPES		
Dimensions (length x width x height)	mm	2310x1100x1600
Dry weight	kg	1555

SOUND ATTENUATED TYPE		
Canopy Model		ASM 6
Dimensions (length x width x height)	mm	3250x1100x1840
Dry weight	kg	2115

\* 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)
- \* Remote Radiator
- \* Engine oil heater
- \* Residential silencer
- \* Charge voltmeter
- \* Anti condensation heater for alternator
- \* 3 pole alternator circuit breaker (only for automatic models)
- \* Tool kit
- \* Automatic Transfer Switch by contactor or motorized circuit breaker
- \* Fuel - water separator filter
- \* Automatic fuel filling system
- \* Manual sump oil drain pump
- \* Low fuel level alarm
- \* Charge ammeter
- \* Main fuel tank
- \* 4 Pole contactor
- \* Over sized alternator