



230/400 V - 50 Hz	Generating Set Model	AC 350
Power Pf. 0,8	Standby kVA	350
	Prime kVA	316

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,BS 5514. Contact us for the other running periods.Power ratings based on a 40 °C ambient temperature reference.

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 canopy and mobile units

STANDARD GENSET SPECIFICATIONS

ENGINE:

- CUMMINS heavy duty diesel engine
- Four cycle, water cooled, turbo charged
- Electronic Governor Control System
- Direct injection fuel system
- 24 Vdc starter and charge alternator
- 4 Valves per cylinder (Except AC 250)
- Replaceable wet type cylinder liners
- Replaceable fuel filters, oil filters and dry element air filters
- 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
- Stator winding with 2/3 pitch for improved harmonics
- 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 bung on the fuel tank

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 against environment influences
- 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 equipment meets the following standards: ISO 3046, VDE 0530, BS 4999, BS 5000, EN 60034-I, IEC 34. The generating set is manufactured by a full accredited NQA-ISO 9001.

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;
- Control Modules Common Features
- Automatic controls generating set, start and shutdown
- Front panel programming of the module settings
- Remote communication via RS232 port or RS 485 "modbus" output
- Scrolling digital LCD display
- Event logging of shutdown alarms
- Control Metering via LCD display
- Generator Volts(F-F/F-N)
- Generator Amperes(L1,L2,L3)
- Generator Frequency (Hz)
- Generator kVA
- Generator kW
- Generator Cos ϕ
- Engine oil pressure (PSI&Bar)
- Engine Temperature (Cantigrade & Fahrenheit)
- Engine Speed RPM
- Engine hours run
- Plant battery volts
- Common Alarms

- Under / over generator volts
- Under / over generator frequency
- Over current
- Low oil pressure
- High engine temperature
- Under / over speed
- Low coolantlevel
- Fail to start
- Fail to stop
- Emergency stop
- Charge fail
- Low / High battery volts
- 1- Auto Mains Failure Control System P2020
- Control with DSE model 5220
- Static battery charger
- Emergency stop push button
- Additional Features
- Monitoring AC mains supply
- Provides signal to change over switch gear
- Easy pushbutton control
- Stop / Reset-Auto-Manual-Test-Start
- Additional Metering
- Mains volts (F-F / F-N)
- Mains frequency (Hz)
- Additional Alarms
- Under / over mains volts
- Under / over mains frequency
- Can data fail
- Can ECU fail
- Auto Start Control System P2010
- Control with DSE model 5010 module
- Emergency stop push button
- Additional Features
- Provides signal to load transfer
- Easy pushbutton control
- Stop / Reset-Auto-Manual-Test-Start

TECHNICAL DATA			
Diesel Generating Sets 230/400 V - 50 Hz			
G R O U P	MODEL		AC 350
	Power Pf. 0,8		350 280
			316 253
D I E S E L E N G I N	Engine Make		Cummins
	Model		NT 855 G6
	Gross engine power output at rated rpm		kWm hp 310 415
	Aspiration and Cooling		Turbo charged
	Cylinders Capacity		Lt 14
	Cylinders and Build		6 In line
	Engine Speed		rpm 1500 rpm

E	Bore and Stroke	mmxmm	140x152		
	Compression Ratio		14.0:1		
	Governor		Electronic		
	Fuel Consumption	Load L/hr	1/2	3/4	Full
			36	52	69
	Fuel Tank Capacity	Lt	420		
	Oil Capacity	Lt	38		
	Water Capacity	Lt	70		
Air Intake - Engine	m ³ /min	21.6			
Exhaust Gas Flow	m ³ /min	64			
Alternator Voltage Regulation			± %1		

OPEN TYPES		
Dimensions (length x width x height)	mm	3230x1100x2000
Dry weight	kg	2910

SOUND ATTENUATED TYPE		
Canopy Model		AS 400
Dimensions (length x width x height)	mm	4400x1430x2270
Dry weight	kg	3995

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

OPTIONAL EQUIPMENTS	
* Fuel - Water separator filter	* Automatic fuel filling system
* Engine oil heater	* Manual sump oil drain pump
* Residential silencer	* Enclosure, Sound proof canopy
* Trailer	* Low fuel level alarm
* Charge ammeter	* Anti condensation heater for alternator
* Main fuel tank	* 3 pole alternator case circuit breaker (only for automatic models)
* 4 pole contactor	* Tool kit
* Over sized alternator	* Automatic transfer switch by contactor or motorized circuit breaker
* Automatic Synchronising and power control system	