



CUMMINS Diesel Engine Generating Set

Group

Power (Standby kva / kw)	140 kva 112 kw
Power (Prime kva / kw)	126 kva 101 kw
Dimension without canopy	900 x 2300 x 1550
(Width / Length / Height) mm	
Dimension with canopy	1100 x 2800 x 1700
(Width / Length / Height) mm	
Weight without canopy	kg 1300
Weight with canopy	kg 1750

Diesel Engine

Brand	CUMMINS
Model	6BTA5.9-G2
Engine Power (Standby kw)	kw/hp 116 / 155
Engine Power (Prime kw)	kw/hp 104 / 140
Revolution per minute	rpm 1500
Cycle	4 stroke
Total displacement	lt 5,9
Number of cylinders	6 single line
Bore x Stroke	mm x mm 102 x 120
Governor Type	Electronic
Induction of rotation	Turbo-After cooler
Injection	Direct injection
Direction of rotation	Anti- clockwise when faced flywheel
Cooling	Water cooled
Electrical System	VCD 12 / 24
Lub-oil Capacity	lt 16,3
Fuel consumption (Full load)	lt/h 27
Fuel consumption (%50 load)	lt/h 14
Fuel tank capacity	lt/h 230



Technical Specification

Engine

- CUMMINS water cooled heavy duty diesel engine.
- 4 stroke, water cooled 1500 rpm
- 24 Volt DC starter and charge alternator
- Dry type disposable air filter
- Tropical type radiator
- A capacity to cool up to 50°C
- Natural aspiration or Turbo intercooler direct injection
- Flexible fuel pipes and oil discharging
- Engine jacket water heating

Alternator

- Complies with VDE 0530, IEC34-1, IEC 60034-1, NEMA MG 1.22 standards
- 4-pole, synchron type, single bearing, brushless, star-connected
- Standard voltage 230/400 volt 50 Hz
- IP23 protection class
- Self-excitation
- Automatic voltage regulator (AVR)
- 300% Short circuit resistance with 10 seconds

Sound-proof canopy

- Special design for minimizing acoustic level
- Special type muffler and heat insulation
- Acoustic insulation with rot-proof, moisture-repellent and non-flammable material

Chassis

- Mounted on the steel base chassis
- Fuel tank is located in the chassis
- Mechanical fuel indicator
- Rubber brackets that prevent vibration

Control Unit

- DKG 307 Automatic control panel
- Ammeter, Voltmeter, Frequency meter
- Generator active power measurement
- Operation hourmeter
- Engine oil pressure measurement
- Relays
- Emergency stop button
- Remote start operation available
- Ignition switch
- Mains / Generator selector switch

For Automatic Version

- 2 pcs. contactor in suitable amperage
- Battery charger
- Automatic / Manual selector switch

For Manual Version

- Thermic magnetic switch with 3 pole

Alternator

Alternator Type

Brushless, direct - coupled, star - connected self alerting, static voltage regulator

Power (Stanby kva / kw)	140 kva 112 kw
Power (Prime kva / kw)	126 kva 101 kw
Output Voltage	v 231 / 400 V
Regulation	± 0,5 %
Frequency	Hz 50
Revolution per minute	rpm 1500 d/d
Short circuit current	%300 (10 sec)
Insulation	H
Protection	IP 23
Efficiency	90 %
Overloading	1 for one %110, 2 sec. for %150
Power factor	cos Q = 0,8

