



sMODEL	EC-30 60HZ
Standby Power (60Hz)	24KW /30KVA
Prime Power (60Hz)	22KW /27KVA

Standard Features

General Features:

- Engine (Cummins 4B3.9-G)
- Radiator 50°C max, fans are driven by belt, with safety guard
- 24V charge alternator
- Alternator (Stamford TWG Series, Siemens or Equal), single bearing alternator IP22/IP23, insulation class H/H
- Absorber
- Dry type air filter, double fuel filter, oil filter, coolant filter
- Main line circuit breaker
- Standard control panel
- 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphone, flange, muffler
- Tools kits
- User manual





Generator Ratings

Voltage	HZ	Phase	P.F	Standby	Standby Ratings	Prime Ratings
			(COS¢)	Amps	(KW/KVA)	(KW/KVA)
480/277	60	3	0.8	36	24/30	22/28
460/266	60	3	0.8	37	24/30	22/28
440/254	60	3	0.8	39	24/30	22/28
416/240	60	3	0.8	41	24/30	22/28
Remarks: High Voltage of 6.3kv, 6.6kv, 10.5kv, 13.8kv etc are available.						

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with GB/T2820-97 (eqvISO8528); A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.

Sales Promises

Ettes Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested. Warranty is according to our standard conditions: 12 months or 1,500 running hours, subject to the earlier one. And what's more, Cummins gensets enjoy world-wide united Warranty from Cummins engine agency or service centre at the client's local side.

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ENGINE DATA

Manufacturer / Model: Cummins 4B3.9-G, 4-Cycle

Air Intake System: Air Natural Cooled

Fuel System: A mode fuel pump

Cylinder Arrangement: 4 in Line

Displacement: 3.9 L

Bore and Stroke: 102×120 (mm)

Compression Ratio: 16.5:1

Rated RPM: 1800rpm

Max. Standby Power at Rated RPM: 30KW/40HP

Governor Type: RSV Mechanical (Std)/Electronic (optional)

Frequency Regulation, Steady State: <1.5%

Exhaust System

Exhaust Gas Flow: 4.7m3/min
Exhaust Temperature: 410°C
Max Back Pressure: 10kPa

Air Intake System

Max Intake Restriction: 5kPa

Burning Capacity: 2.2m3/min

Air Flow: 150m3/min

Fuel System

100%(Prime Power) Load:228g/kw.h75%(Prime Power) Load:229g/kw.h50%(Prime Power) Load:240g/kw.h

Oil System

Total Oil Capacity: 11L

Oil Consumption: ≤4g/kw.h
Engine Oil Tank Capacity: 9.5L
Oil Pressure at Rated RPM: 345kPa

Cooling System

Total Coolant Capacity: 21L

Thermostat: 82-95°C

Max Water Temperature: 104 °C

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ALTERNATOR SPECIFICATION

GENERAL DATA

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data

Manufacturer / Type: Stamford TWG Series, Siemens or Equal

Number of Phase: 3

Connecting Type: 3 Phase and 4 Wires, "Y" type connecting

Number of Bearing: 1
Power Factor: 0.8
Protection Grade: IP22/IP23

Altitude: ≤1000m

Exciter Type: Brushless, self-exciting

Insulation Class, Temperature Rise: H/H

Telephone Influence Factor (TIF): <50

THF: <2%

Voltage Regulation, Steady State: ≤±1%

Alternator Capacity: 30KVA

Alternator Efficiencies: 83.6%

Air Cooling Flow: 0.119m³/s

GENERATING SET DATA

Voltage Regulation: ≥±5%

Voltage Regulation, Stead State: ≤±1%

Sudden Voltage Warp (100% Sudden Reduce): ≤+25%

Sudden Voltage Warp (Sudden Increase): ≤-20%

Voltage Stable Time (100% Sudden Reduce): ≤6S

Voltage Stable Time (Sudden Increase) ≤6S

Frequency Reduce: <5% Adjustable

Frequency Regulation, Stead State: ≤1.5%

Frequency Waving: ≤0.8%

Sudden Frequency Warp (100% Sudden Reduce): ≤+12%

Sudden Frequency Warp (Sudden Increase): ≤-10%

Frequency Recovery Time (100% Sudden Reduce): ≤5S

Frequency Recovery Time (Sudden Increase): ≤5S

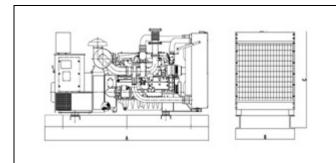




Options		
Engine	Fuel System	Control System
Heater	Daily Fuel Tank	Remote Control Panel
	 Water Separator 	 Auto Transfer Switch (ATS)
		Control Panel
		 Paralleling System
		 Electricity Output Cabinet

	Alternator		Others		Data	
Anti Condensation Heater		•	 Rainproof Type 		 Engine Parts Drawing List 	
•	Permanent N	Magnet	•	Soundproof Type	•	Spare Parts
	Generator (PMG)					
•	Drop CT (For Parallel	ling)	•	Trailer Type		

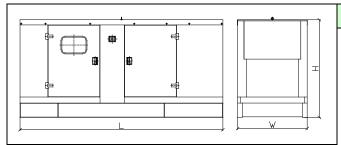
Dimension & Weight



Standard Configuration (Open Type)

Overall Size: 1800 (mm) x750 (mm) x1350 (mm)

Weight: 876 kg



Soundproof Type

Overall Size: $2230 (mm) \times 1060 (mm) \times 1680 (mm)$

Weight: 1300 kg





Standard Control Panel/LCD



Ettes Power Standard Control Panel, usually adopts control module of UK Deepsea DSE6020 or Smargen 6110/6120 series, using micro processing techniques integrating digital, intelligent and network techniques which can carry out functions including auto start/stop, data measure, alarming. The controller uses LCD display, optional Chinese and English display interface with operation easy and reliable. It can be widely used in all types of generator automatic control system for compact structures, advanced circuits, simple connections and high reliability \square

Auto Module Control Panel/Automatic Transfer Switch



Auto Module Control Panel, usually adopt control module of UK Deepsea DSE 7320 or Equal, is the configuration for nobody on duty generators control, This kind of panel adopts auto module control system, with large LCD display to show the menu.

Features: receive remote output signal from ATS and realize auto start and stop of generators.

RS232 or 485 interface which can communicate with PC to realize remote operation.

Auto Mains Failure controller, can realize furthermore can detect ATS and control directly.

Auto Synchronization Parallel Control Panel



Automatic Parallel Control Panel, usually adopting intelligent control module of UK Deepsea DSE 7510 or SDE8610 or Equal, This new automatic parallel system is inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for single genset working or Gensets Parallel working. This kind of panel also can be used to parallel generator when the capability of the power plant needs to be enlarged in the future. \Box

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