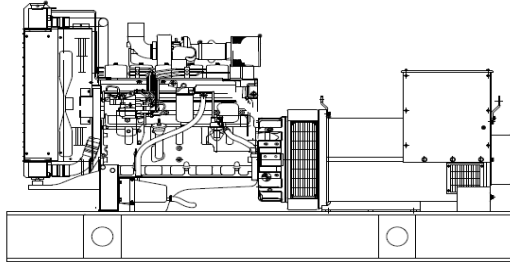


EDG- 175C		50Hz	60Hz
[kW/kVA]	Prime	120/150	136/170
	Standby	140/175	150/188



[Operating Condition]

- ▶ Temperature : -18 ~ 40 °C
- ▶ Humidity : Below 85%
- ▶ Site altitude : Below 1000 m
- ▶ Installation Site : Inside of the room

## STANDARD FEATURES

### ★ Reliable high quality system

To improve the performance of Products, high quality auxiliaries equipment applied and optimized protection device built in the digital controller against malfunctioning and abnormal conditions.

### ★ Simple and easy operation

With centralized controls simplifying generator operation and supervision is made very simple.

### ★ Low cost maintenance & operation

Use the specialized diesel engine for generator set keeps operation costs very low.

## DIESEL GENERATOR SET EVERDIGM CORP.

Hz	Prime (kW/kVA)	Standby (kW/kVA)	Voltage (Vac)
50	120/150	140/175	380/220
50	120/150	140/175	400/230
50	120/150	140/175	415/240
60	136/170	150/188	380/220
60	136/170	150/188	400/230
60	136/170	150/188	415/240

[Definition of the Power]

- ▶ Prime : Output available with varying load (average 70%) for the supply duration of generator set power
- ▶ Standby : Output available with varying load for a limit time

※ Ratings are base on the ISO8528.

## GENERATOR PERFORMANCE

### ★ Frequency regulation accuracy

Under varying loads from no load to 100% load at the rated power factor(0.8), frequency regulation is  $\pm 0.25\%$ (electronic type gov.).

### ★ Voltage regulation accuracy

Under varying loads from no load to 100% load at the rated power factor(0.8), voltage regulation is less than  $\pm 1\%$ .

### ★ Voltage adjustable range

Under rated speed and no load condition, voltage adjustable range is less than  $\pm 5\%$  of rated voltage.



## DIESEL ENGINE

### Specifications

Manufacturer	CUMMINS		
Model	QSB7-G3		
Type	4-Cycle, in-line		
Displacement	ℓ	6.69 liter (408 in <sup>3</sup> )	
Bore x stroke	mm	107 x 124	
Speed	rpm(Hz)	1500(50)	1800(60)
Prime power	BHP	184	200
Standby power	BHP	212	228
No. of cylinder	ea	6	
Cylinder Block	Cast iron		
Aspiration	Turbo charged & Intercooled		
Rotation	C. Clockwise(from flywheel)		

※ The Engine performance correspond to ISO3046, BS5514 and DIN 6271.

### General Engine Data

Battery Charging Alternator	70 amps
Starting Voltage	24 volt
Fuel System	Direct injection
Injection Pump Type	Common Rail
Fuel Filter	Spin-on fuel filter
Governor type	Electronic Governor
Lube Oil Filter Type	Spin-on full flow filter
Lube Oil Capacity( ℓ )	18.9
Flywheel Dimensions	SAE2

### Cooling Performance Date

Cooling System	Air-Air Charge Cooled	
Coolant Ratio	50%:ethylene glycol 50%:water	
Coolant Capacity( ℓ )	36	
Limiting Ambient Temp(°C)	50(50Hz)	60(60Hz)
Fan Power(kWm)	4.8(50Hz)	7.7(60Hz)
Air Flow(m <sup>3</sup> /s)	2(50Hz)	3.1(60Hz)
Air Cleaner Type	Dry replaceable element	

## ALTERNATOR

### Specifications

Type	Revolution Field	
Phase & wire	3P4W	
Power factor	0.8	
Pole	4	
Speed	rpm(Hz)	1500(50); 1800(60)
Insulation Class	H	
Excitation	Self-Excited, Brushless	
Method of cooling	Self ventilation	
Winding Pitch	2/3	
Coupling	Flexible Disc.	
Bearing	Single, Ball Bearing	
Connection	Star (Wye)	
Mechanical Protection	IP21	
Overspeed	rpm	2250
Overload	110% for 1 hour of rated power	

※ Compliance with IEC 60034-1, CEI 2-3, BS4999-5000, VDE 0530, NF 51-100, 111, OVE M-10, NEMA MG 1.22

- ★ Applied the 2/3 pitch winding to reduce the 3rd harmonics.
- ★ Designed by using the latest technologies and the best materials available to guarantee high efficiency value.
- ★ Impregnated with high-grade resin and protection against hostile environment is provided as standard.
- ★ Supplied with over exciting current and under frequency protection built in the AVR.
- ★ Suitable for parallel operation with other generator or mains power.  
(Parallel kit is available on request.)

**FUNCTION OF CONTROL PANEL**

Item	Specification	Manual	Semi-Auto	Remark
<b>Switch &amp; Push Button</b>	Manual/Remote/Auto button	■	■	
	Stop button	■	■	
	GCB Close/Trip button	■	■	
	Alarm button	■	■	
	Direction/Enter/ESC button	■	■	
	Emergency stop push button	■	■	
<b>Display</b>	Digital Volt./Current/Power/PF/Hz	■	■	
	Running Hours/Kilowatt hour	■	■	
	RPM/DC Voltage	■	■	
	Oil press./Coolant temp	■	■	
	Cooldown time/Mains power live/Failure sensing time	■	■	
<b>Breaker</b>	Main molded case circuit breaker (MCCB 4P)	■ (3P:▲)	■ (3P:▲)	
	Circuit protector for DC source	■	■	
	Breaker for main power/coolant heater	X	■	
<b>Indicator &amp; Protection System</b>	Main power lamp	X	■	LED
	Manual/Remote/Auto	■	■	
	Running	■	■	
	GCB close/trip	■	■	
	Emergency stop	■	■	LCD
	Over voltage/Under voltage/Over Current	■	■	
	High coolant temperature	■	■	
	Low lub. oil pressure	■	■	
	Fail to start	■	■	
	Overspeed	■	■	
<b>Remote System</b>	PC Monitoring program	X	▲	
	Dry Contact (Mains Power, Running, Fault)	X	■	
<b>Control System</b>	SPEED CONTROL UNIT	■	■	
<b>Others</b>	Dry Contact (Extension Module)	X	▲	
	Battery Charger	X	■	

※ Note. "■" : Standard, "▲" : Option, "X" : Not Applicable

## GENERATOR SET

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### Electrical Characteristics

Voltage regulation	±1%
Voltage regulator	UVR6
Frequency regulation	Isochronous
Random frequency variation	± 0.25%

### Fuel System

Tank type	Mounted in Bed	
Fuel consumption ( ℓ /hr @ prime)	50Hz	60Hz
25%	11	12
50%	21	23
75%	30	33
100%	38	42

### Specification

Dimension	LxWxH,mm	2656x1100x1549
Weight	kg	1361
Anti-Vibration Spring		1000 X 4

## STANDARD SUPPLY SCOPE

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### Generator Set

- Battery & battery cable
- Silencer
- Battery charger (Auto)
- Tool box
- Operating manual
- Anti-freezing liquid

### Diesel Engine

- Fuel oil filter
- Lub. oil filter
- Air cleaner
- Lubricate oil

- User manual

### Optional

- Analog control panel
- Self-standing panel
- Parallel control panel
- Bonnet or Soundproof type Gen set
- Auxiliary spare part
- Generator/Engine part book

※ Note :

- 1) All specifications are subject to change without notice.
- 2) The install data should be changed by site conditions.



/ *Build the Future* /

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Printed in March. 2012.