

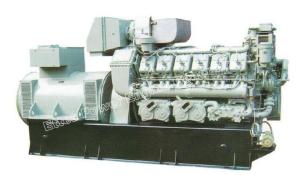




Model	EDM-450/CCFJ360J (60Hz)	
Standby Power (60Hz)	400kW /500kVa	
Prime Power (60Hz)	360kW /450kVa	

Standard Features

- Marine Engine (MWM-Deutz TBD234V12)
- Heat Exchanger and Water Pump (for marine main power)
- Radiator (standard for marine emergency power genset or optional for marine main power genset)
- •24V battery and charger (optional)
- Alternator (Marathon, ABB, Siemens or Equal), single bearing alternator, Protections Class IP23/IP44, insulation class H/H
- Absorber
- Standard control panel
- Muffler (optional)
- •Start batteries, rack and cable (optional)
- •Ripple flex exhaust pipe, exhaust siphon, flange
- Soundproof Canopy (optional)
- Air Start or Spring Start or Double Electrical Start (optional for emergency power genset)
- Tools kits
- •User manual





General Ratings

Voltage	Hz	Phases &Wires	P.F (COS¢)	Rated Current (Amps)	Standby Ratings (kW/kVa)	Prime Ratings (kW/kVa)
440	60	3 & 3	0.8	590	400/500	360/450
480	60	3 & 3	0.8	541	400/500	360/450

Remarks: Other special voltage requirements are available

Standards

- GB/T13032-1991, ISO9001:2008 and CE Quality Control System.
- As to Classification Society, Ettes Power supply CCS as standard; ABS, BV, DNV-GL or LR are optional.

Sales Promises

Ettes Power provides a full line of brand new and high quality products. Warranty 12 months or 2,000 running hours, which is subject to the earlier one.

Website: www.ettespower.com Email: info@ettespower.com







Marine Diesel Engine Data

Engine Brand	HND-DEUTZ MWM
Engine Model	TBD234V12, 4 Stroke, Water Cooled.
Number of Cylinders	12 cylinders in Vee
Aspiration	Turbocharged and After-cooled
Bore × Stroke	128 x140 mm
Rated Speed	1800 RPM
Displacement	21.6 L
Compression Ratio	15:1
Prime Power	444kW /596HP
Speed Governor	Electrical
Standard Cooling System	By heat exchanger
Fuel Consumption at 100% Load	199 g/kW.h
Starter Motor	DC24V
Emission Standard	IMO TIER II, EIAPP Certificate

Alternator Specification

Alternator Brand	Marathon, ABB, Siemens or Equal	
Alternator Model	MX-H-400-4	
Power Capacity	500kVa	
Efficiency	93.7%	
Туре	Brushless, Self-excited and AVR	
Power factor	0.8	
Insulation Grade	Н	
Protection Grade	IP23(IP44 is optional)	
Phase / wire	3 phase 3 wires	

Standard Control Panel

Standard Control Panel (originally coming from MWM-Deutz)

- ▶ engine start/stop
- ▶ engine coolant temperature
- ▶ oil pressure and temperature
- ► tachometer
- ► coolant temperature alarm
- ▶ oil pressure alarm
- ► battery charging indicator
- ▶ generator to be protection from overload and overheat
- ▶ other basic functions of monitoring and alarms



Specifications may change without prior notice
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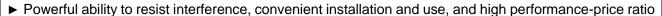




Optional Control Panel

Free Standing Control Cabinet, Controller ENDA or Smartgen Series or equal, which has the following features.

- ► Microcomputer digital control
- ▶ Digital display of parameters of diesel engine, and integration of measuring and monitoring
- ▶ Modularization of functional configuration, and integration of product structures
- ▶ Resistance to vibration, humidity, salt mist and high/low temperature



- ▶ Automatic zero set of lubricating oil pressure.
- ▶ Remote monitoring of running parameters;
- ► Accumulation of running period of diesel engine
- ▶ Indicators of lube oil temperature; Lube oil pressure, Water temperature, Engine speed; Battery voltage; Engine run-time (Hours)



Standard Supply Scope

Complete standard open type marine diesel genset including:

- Engine
- Alternator
- Base Frame and Elastic Coupling
- Heat exchanger and sea water pump (for marine main power)
- Radiator (standard for marine emergency genset or optional for marine main genset)
- Standard control system
- Technical documents (user books, parts catalog, drawings and diagrams)
- Bench testing report

CCS and EIAPP certificates		
Optional Equipment		
Engine	Alternator	
Water Separator	Anti Condensation Heater	
 Water and Oil Heater 	 Permanent Magnet Generator(PMG) 	
Air Start or Spring Start or double electrical start	Drop CT(For Paralleling)	
(for emergency genset)		
Battery and Charger		
Exhaust Silencer		

Control System	Others
Switchboard (circuit breaker)	Free Standing Fuel Tank
 (ATS) Control Panel (for emergency genset) 	Soundproof Canopy
Parallel Control Panel	Rainproof Canopy
	Fire Fighting System
	 Extra Spare Parts for future maintenance

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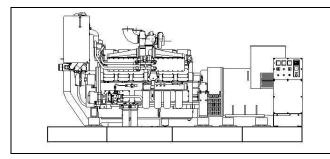


Marine Classification Society Certification

Ettes Power will supply CCS (China Classification Society) as standard, which is the member of IACS (the International Association of Classification Societies) and chaired IACS Council respectively in 1996-1997 and 2006-2007.

And, Ettes Power can also apply special certificates such as ABS, BV, DNV-GL or LR etc. according to the client's special requirements.

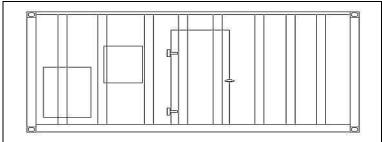
Dimension & Weight



Standard Configuration (Open Type)

Overall Size: 3674(mm)×1268(mm)×1900(mm)

Weight: 4500 kg



Soundproof Type

Overall Size: to be confirmed Weight: to be confirmed















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