

MODEL: CCFJ-360J5 Marine Generator Powered by Cummins







## DIESEL GENERATING SET 400/230 V - 50 Hz - 3PHASE

POWER RATING		PRIME	STANDBY	
POWER	kVA	450	495	
	kW	360	396	
Rated Speed	r.p.m	1500		
Available Voltages	V	400/230 - 380/220-415/240V-440/254 etc		
Rated at power factor	Cos Phi	0.8		

Standard Reference Conditions: 25°C (77°F) Air Inlet Temp, 100m(328 ft) A.S.L. 30% relative humidity.

#### Prime Power (PRP):

According to ISO 8528-1:2018, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 hours of operation shall not exceed 70 % of the PRP.

#### **Emergency Standby Power (ESP):**

According to ISO 8528-1:2018, Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hours of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 hours of operation shall not exceed 70 % of the ESP

ENGINE		PRIME	STANDBY	
Rated Output	kW	410	451	
Manufacturer		Cummins		
Model		K19-D(M)		
Number of Cylindirs and arrangement		4 Cycle, 6 Cylinder in Line		
Aspiration Type		Turbocharged/Aftercooled		
Bore and Stroke	mm	159X159		
Compresion Ratio		14.5:1		
Cooling System		Water-cooled		
Engine Speed/Frequency	rpm/Hz	1500/50HZ		
Coolant Capacity	L	N/A		
Starting System		Electric 24 volt DC		
Displacement	L	19		
Lubricant system Capacity	L	135		



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Battery Volatge / Capacity		24VDC			
Governor	Туре	Electronic			
Air Filter	Туре	Dry			
Fuel Consumption	Load	100%	75%	50%	25%
	L/h	102.6	78.0	52.0	27.0

ENGINE: Marine 4 stroke cooled diesel engine complete with air, fuel and oil filters, electric starting and charging equipment

#### COOLING:With heat exchanger,sea water pump cooling

**ELECTRICAL SYSTEM:**12/24V upto.Axial type starter motor, battery charging alternator, high capacity lead acid battery, and battery tray mounted on the generator base frame, and heavy duty interconnecting cable with terminations.

ALTERNATOR MANUFACTURER	STAMFORD	Marathon	
Model	HCM 534D	MX-H-400-4	
Excitation System	Self Excited		
Number of Poles	4		
Connection Type	Star-Series		
Insulation Class	Class H		
Voltage Regulator	A.V.R. (Electronic)		
Bracker Type	Single bearing		
Steady Voltage Precision	± 0.5%		
Couping System	Flexible disc		
Coating Type	Standard (Vacuum impregnation)		
Underspeed Protection	Standard		
Ingress Protection Rating	IP23		
Wave Form NEMA=TIF	<50		

## CONTROL PANEL: CUMMINS KCM-IIG



Voltage Regulation

 $\Delta$  Voltage regulation maintanined within ±0.5%

 $\Delta$  Between 0.8 and 1.0 lagging and unity

 $\Delta$  From no load to full load

 $\Delta$  At speed droop variation upto 4.5%



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## Frequency Adjustable Ratio

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

#### **Frequency Undulation**

 $\Delta$  Load from 0-100%,frequency undulation within 0.25%

 $\Delta$  No load wire volts max undulation ration\ within 1.8%

 $\Delta$  Three Phrase balanced load in the order of 5%

 $\Delta$  Effect factor of Telecom

 $\Delta$  TIF better than 50

 $\Delta$  THF to IEC60034 Part 40 better than 2%

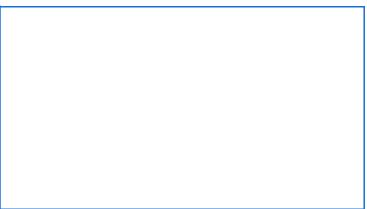
### **Quality Standards**

ISO9001:2000,ISO14000,ISO3046 ISO8528 BS4999 BS5514,AS1359,ICE34 CE Compliance

## Gensets Dimensions & Weight & Fuel Tank Capacity

Open type:LxWxH (mm),Dry Weight / Kgs, Fuel tank (L) 3000\*1270\*1950, 4200kgs

Local Distributor:





FUZHOU SUNSHINE MACHINERY CO.,LIMITED Fuzhou, Fujian, China.



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