

Model: C388D5

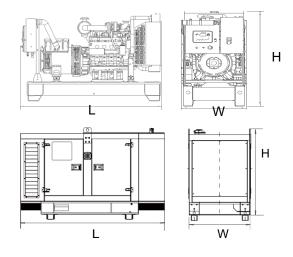
Powered by CUMMINS

Output Ratir	ng			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
C388D5	400V/50HZ	280KW	310 KW	380/220V400/230V415/240V
	PF:0.8	350KVA	388KVA	

General Information				
	Model	C388D5A		
	Engine	NTA855G2A		
Speed	I control type	Electronic		
	Phase	3		
Control System		Digital		
System voltage		24V		
Fr	equency	50HZ		
Engine	Speed(RPM)	1500		
	Standby power(2)	79.5		
Fuel Consumption	Prime Power(1)	71.9		
	75% prime power	54.9		
L/hr	50% prime power	38.9		



Dimension and Weight					
Open	Silent				
3050mm	3980mm				
1100mm	1420mm				
1820mm	2050mm				
3000KG	4150KG				
	Open 3050mm 1100mm 1820mm				



AGG POWER gensets are compliant with EC mark which include the following directives:

- * 2006/42/EC Machinery safety.
- * 2006/95/EC Low voltage
- * EN 60204-1: 2006+A1:2009, EN ISO 12100:2010, EN ISO 13849-1: 2008, EN 12601: 2010

(1)Prime Power(PRP):

According to ISO 8528-1:2005, 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 operation conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24h of operationshall not exceed 70% of the PRP.

(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during avariable electrical power sequence, under the stated operation 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 200h of operation per year with the maintenance intervals and procedures being caried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.





Engine Specification

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GENERAL ENGINE DATA		
TypeAspiration	Turbocharge	•
Bore x Stroke - in. \times in. (mm \times mm)	5.5 ×6	(140 × 152)
Displacement - in.3(L)	855	(14)
Compression Ratio	14.0:1	
Firing Order	1-5-3-6-2-4	
Dry Weight		
Fan to Flywheel Engine - Ib. (kg)	2870	(1300)
Heat Exchanger Cooled Engine - lb. (kg)	3095	(1410)
Wet Weight		
Fan to Flywheel Engine - Ib. (kg)	2970	(1350)
Heat Exchanger Cooled Engine - Ib. (kg)	3320	(1510)
Moment of Inertia of Rotating Components - With FW1109 flywheel - Ib.·ft.2 (kg·n	118.5	(4.99)
Center of Gravity from Rear Face of Flywheel Housing - in.(mm)	27.7	(704)
Center of Gravity Above Crankshaft Centerline - in.(mm)	5.5	(140)
ENGINE MOUNTING		
Maximum Allowable Bending Moment at Rear Face of Block - lb.·ft. (N·m)	1000	(1356)
EXHAUST SYSTEM		
Maximum Allowable Back Pressure - in.Hg (kPa)	3.0	(10)
Standard Exhaust Pipe Diameter - in. (mm)		(127)
AIR INDUCTION SYSTEM		,
Maximum Allowable Intake Air Restriction		
With Clean Filter Element - in. H ₂ O (kPa)	15	(3.74)
With Dirty Filter Element - in. H ₂ O (kPa)		(6.22)
Minimum Dirt Holding Capacity - g/CFM (g/L/s)	25 25	(53)
Maximum Allowable Intake Air Temperature ΔT - °F (°C)	30	(17)
· · · · · · · · · · · · · · · · · · ·	30	(17)
COOLING SYSTEM		(00 0)
Coolant Capacity - Engine Only - U.S. gal (L)	5.5	(20.8)
- With Radiator - U.S. gal (L)	16.0	(60.6)
- With Heat Exchanger - U.S. gal (L)	13.0	(49.2)
LUBRICATION SYSTEM		
Oil Pressure @ Idle Speed - PSI (kPa)	15 Min	(103) Min
@ Governed Speed - PSI (kPa)	35-50	(241 - 345)
Maximum Allowable Oil Temperature - °F (°C)	250	(121)
Maximum Oil Consumption - U.S.qt./h (L/h)		(0.24)
Oil Pan Capacity - Low / High - U.S. gal. (L)		(28.4 / 36.0)
Total System Capacity - U.S. gal. (L)		(38.6)
Angularity of Oil Pan - Front Down/Front Up/Side to Side	38 % 38 % 38 °	
ELECTRICAL SYSTEM		
Minimum Recommended Battery Capacity (24V)	000	
Cold Soak (No Load) - CCA		
- Minimum Reserved Capacity - CCA		
Cold Soak (With Load) - CCA Minimum Reserved Capacity - CCA		
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Alternator

Alternator		
Poles	Num	4
Winding Connections (standard)		Star-serie
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		Brushless
Voltage Regulator		A.V.R. (Electronic)
Bearing		Single bearing
Coupling		Flexible disc
Coating type		Standard (Vacuum impregnation)

Options

Engine	Alternator	Generator Sets	Fuel System	Canopy
Water Jacket Preheater Oil Preheater	Winding Temperature measuring Instrument Alternator Preheater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater	●Tools with the machine	Low fuel level alarm Automatic fuel feeding system Fuel T-valves	●Rental Type Canopy ●Trailer
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
●Oil with the machine	●Protection board from hotness	Front heat protectionCoolant (-30°C)	Remote control panel ATS Remote controller Synchronizing controller	• 415/240V • 380/220V • 220/127V • 220/127V • 200-115V







Control Panel



Product description

- Single gen-set controller for Stand-by and Primepower applications
- · Direct communication with EFI engines
- Total remote monitoring and control

Key features

- · Easy to install, configure and use
- Wide range of communication capabilities including:
 - connection via RS232, RS485, CAN and on board USB
 - internet access using Ethernet or GPRS
 - support for Modbus and SNMP protocols
- Cloud-based monitoring and control
- Active SMS and emails in different languages
- 2x 5 A binary outputs for cranking and fuel solenoid
- Option for up to 16 additional binary inputs/outputs
- Flexible event based history with up to 350 events
- · Load shedding, dummy load capability
- · Automatic temperature based cooling/heating
- · Comprehensive gen-set protections
- Multipurpose flexible timers
- · True RMS measurement

Available extension modules

Product	Description	Order code
CM-Ethernet	Ethernet interface	CM2ETHERXBX
CM-GPRS	GSM modem / wireless internet	CM2GPRSXXBX
CM-RS232-485	Dual port interface	CM223248XBX
EM-BIO8-EFCP	8 additional binary inputs/outputs	EM2BIO8EXBX

Functions and protections

Description	ANSI code	Descritption	ANSI code
Over voltage	59	Load shedding	32P
Under voltage	27	Overload	32
Voltage asymmetry and Phase rotation**	47	Power factor	55
Over frequency	81H	Temperature	49T
Under frequency	81L	Gas (fuel) level	71
Over current*	50 + 51	Earth fault current	50N + 64
Current unbalance	46		

^{*} Short current only





^{**} Fixed setting