Model:C220D5

Powered by DCEC

Output Ratir	ng			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
C220D5	400V/50HZ	160KW	176KW	380/220V 400/230V 415/27V
	PF:0.8	200KVA	220KVA	

General Information				
Model		C220D5		
Engine		6CTAA8.3G2		
Speed control type		Electronical		
Phase		3		
Control System		Digital		
System voltage		24V		
Frequency		50HZ		
Engine Speed(RPM)		1500		
Fuel Consumption (L/hr)	Standby power(2)	51		
	Prime Power(1)	45		
	75% prime power	34		
	50% prime power	23		

Dimension and Weight					
Dimension	Open	Silent			
Length (L)	2394mm	3560mm			
Width (W)	980mm	1220mm			
Height (H)	1636mm	1815mm			
Net Weight	1250KG	1780KG			

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 operation shall not exceed 70% of the PRP.

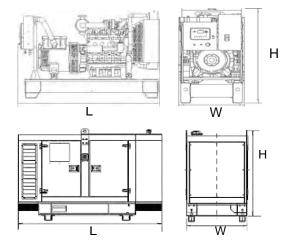
(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during a variable 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.



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Engine Specification

Compression Ratio: Bore: Storke: Emission Certification: Governor Regulation:	18.0:1 114 mm 135 mm MEP STAGE I ≪3%	Aspiration: Displacement: No. of Cylinders: Fuel System:	Turbocharged and Charg 8.3 L 6 BYC P7100/GAC	ge Air Cooled
ENGINE MOUNTING Maximum (Static)	Bending Moment at Rear	Face of Block	N.m	1356
EXHAUST SYSTEM Maximum Back Pr	essure		kPa	10.1
AIR INTAKE SYSTEM Maximum Intake A	ir Restriction with Heavy	Duty Air Cleaner		
— Dirty Eler	ment		kPa	6.2
— Clean Ele	ement		kPa	3.7
-		ntake and Intake Manifold outlet to Intake Manifold	- ℃	25
			kPa	8.5
— 1800RPM	Л		kPa	13.5
Maximum Intake M	Anifold Temperature Diffe	erential (Ambient to IMT) (′ IMTD)℃	50
	•	engine protection (Warning		93
-	Dil Pressure for Engine Pr		kDe	400
•				103
	•			276-414
	•	Sump plus Filters		121 23.8
FUEL SYSTEM				
	tem		BYC P7	100 Direct Injection
				20.3
	•	he Fuel Pump		
				70
COOLING SYSTEM	,			
Coolant Capacity -	Engine Only		litre	12.3
Maximum Coolant	Friction Head External to	Engine1800 rpm	kPa	35
		•	kPa	28
Maximum Static H	ead of Coolant Above Eng	gine Crank Centerline	m	18.3
		• ·····		82 - 93
	· · ·			103
	-	by / Prime Power		110 / 104





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 protection Coolant (-30°C) 	 Remote control panel ATS Remote controller Synchronizing controller 	 415/240V 380/220V 220/127V 220/127V 200-115V







Your Professional Power Assistant

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	Dualportinterface	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

