

Your Professional Power Assistant

Model:C88D5

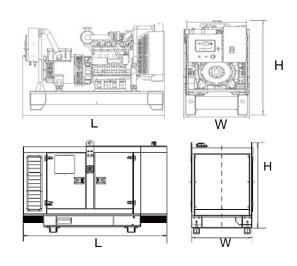
Powered by DCEC

Output Rati	ng			
MODEL		Powe	er rating	Voltage available
		PRIME(1)	STANDBY(2)	
C88D5	400V/50HZ	64KW	70KW	380/220V 400/230V 415/27V
	PF:0.8	80KVA	88KVA	

General Information			
Model		C88D5	
	Engine	4BTA3.9G11	
Speed	I control type	Mechanical	
	Phase	3	
Control System		Digital	
System voltage		24V	
Fr	equency	50HZ	
Engine	Speed(RPM)	1500	
	Standby power(2)	26.9	
Fuel	Prime Power(1)	24.2	
Consumption (L/hr)	75% prime power	18.2	
(L/III)	50% prime power	12.5	



Dimension and Weight				
Dimension	Open	Silent		
Length (L)	2240mm	2980mm		
Width (W)	980mm	980mm		
Height (H)	1473mm	1635mm		
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 approcedures being caried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.





Your Professional Power Assistant

Engine Specification

Compression Ratio: 17.3:1 Aspiration: Turbochanger& Aftercooler

Bore: 102 mm Displacement: 3.9 L Storke: 120 mm No. of Cylinders: 4

Emission Certification: Fuel System: BYC PB/Electronic Governor

Governor Regulation: ≤5%

ENGINE	MOUNTING

Maximum (Static) Bending	Moment at Rear Face of	f Block	N.m	1356
-----------	-----------------	------------------------	---------	-----	------

EXHAUST SYSTEM

Maximum Back Pressure	ν D γ	10
Waxiiiiuiii Dauk Fiessuie	-nra	10

AIR INTAKE SYSTEM

Maximum	Intake Ai	r Restriction	with Heavy	/ Duty Air	Cleaner
IVIGALITICITI	IIIIIIII AI		WILL LICAVI	Duty All	Olcalici

— Dirty Element	-kPa	6.2
— Clean Flement	-kPa	37

LUBRICATION SYSTEM

Engine Oil Pressure for Engine Protection Devices:

— Idle Speed(Minimum)	-kPa	207
— Governed Speed(Maximum)	-kPa	345
Maximum Oil Temperature	°C	121
Minimum Required Lube System Capacity - Sump plus Filters	litre	10.9

FUEL SYSTEM

Type Injection System	BYC PB	Direct Injection
Maximum Restriction at Lift Pump		-
Maximum Fuel Inlet Temperature	℃	70
Total Drain Flow (constant for all loads)	litre/hr	30

COOLING SYSTEM

Coolant Capacity - Engine Only	litre	8.3
Maximum Coolant Friction Head External to Engine1800 rpm	kPa	35
-1500 rpm	kPa	28
Maximum Static Head of Coolant Above Engine Crank Centerline	m	14
Standard Thermostat (Modulating) Range	℃	83 - 95
Minimum Pressure Cap	kPa	69
Maximum Top Tank Temperature for Standby / Prime Power	℃	104 / 100







Your Professional Power Assistant

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