

Your Professional Power Assistant

Model:C30D5

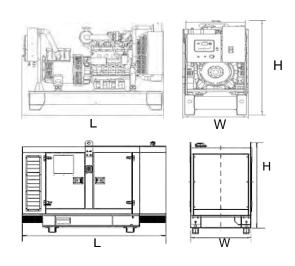
Powered by DCEC

Output Rati	ng			
MODEL		Powe	er rating	Voltage available
		PRIME(1)	STANDBY(2)	
C30D5	400V/50HZ	22KW	24KW	380/220V 400/230V 415/240V
	PF:0.8	27KVA	30KVA	

General Information			
	Model	C30D5	
	Engine	4B3.9G2	
Speed	l control type	Mechanical	
	Phase	3	
Control System		Digital	
System voltage		24V	
Fr	equency	50HZ	
Engine	Speed(RPM)	1500	
	Standby power(2)	7.5	
Fuel	Prime Power(1)	6.7	
Consumption	75% prime power	5.2	
(L/hr)	50% prime power	4.0	



Dimension and Weight				
Dimension	Open	Silent		
Length (L)	1760mm	2240mm		
Width (W)	810mm	980mm		
Height (H)	1370mm	1585mm		
Net Weight	850KG	1160KG		



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:	18.0:1	Aspiration:	Naturally Aspirated
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Bore: 102 mm Displacement: 3.9 L Storke: 120 mm No. of Cylinders: 4

Emission Certification: Fuel System: BYC A/Electronic Governor

Governor Regulation: ≤5%

ENGINE MOUNTING

Maximum (Static) Be	ending Moment at	Rear Face o	f Block	N.m	1356
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EXHAUST SYSTEM

Maximum Back Pressure....-kPa 10

AIR INTAKE SYSTEM

Maximum Intake Air Restriction with Heavy Duty Air Cleaner

— Dirty Element	-kPa	6.2
— Clean Flement	-kPa	3.7

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 A I	Direct Injection
Maximum Restriction at Lift Pump		-
Maximum Fuel Inlet Temperature	-°C	70
	-litre/hr	30

COOLING SYSTEM

Coolant Capacity - Engine Only	litre	7.2
Maximum Coolant Friction Head External to Engine1800	-kPa	35
-1500	-kPa	28
Maximum Static Head of Coolant Above Engine Crank Centerline	m	14
Standard Thermostat (Modulating) Range	℃	83 - 95
Minimum Pressure Cap	kPa	69
	-℃	110 / 104

Maximum Top Tank Temperature for Standby / Prime Power.....

ELECTRICAL SYSTEM

	-volt	12V	24V
Battery Charging System, Negative Ground	-ampere	63	40
Maximum Allowable Resistance of Cranking Circuit	-ohm	0.00075	0.002
Minimum Recommended Battery Capacity			
—Cold Soak @ 0 to 32-F (-18 to 0-C)	-0°F CCA	625	312







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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