

## **Your Professional Power Assistant**

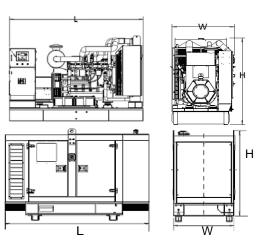
## Model:C165D5

Powered by CUMMINS DCEC

Output Ratir	ng			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
C165D5	400V/50HZ	120KW	132KW	380/220V 400/230V 415/27V
	PF:0.8	150KVA	165KVA	

General Ir	nformation			
	Model	C165D5		
	Engine	6BTAA5.9G12		
Speed	d control type	Electronic		=
	Phase	3		<b>∆GG</b> <sup>Partito</sup>
Con	trol System	Digital	. 0	Step 2
Syst	tem voltage	24V		
Fr	requency	50HZ		
Engine	Speed(RPM)	1500		
	Standby power(2)	38		
Fuel	Prime Power(1)	34	9	3 5
Consumption	75% prime power	26		
(L/hr)	50% prime power	17		

D	Dimension and Weight					
	Dimens	ion	Open	Silent	_	
	Length	(L)	2360mm	3350mm	_	
	Width	(W)	1000mm	1100mm	_	
	Height	(H)	1610mm	1790mm	_	
Net Weight 1459KG 1900KG				1900KG		



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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<b>■Engine S</b>	Specific	ation			
Compression F		17.3:1	Aspiration:	Turbocharged & C	harge Air Cooled
Bore:		102 mm	Displacement:	5.9 L	•
Storke:		120 mm	No. of Cylinders:	6	
Emission Certif	fication:		Fuel System:	BYC P7100/Electro	nic Governor
Governor Reg		<b>≤5%</b>	. de. Cycle		
_		~370			
EXHAUST S	_	Back Pressure		kPa	10
	Exhaust Pip	e Size Normally Acceptable		mm	75
	Maximum S	Static Supported Weight at the	Turbocharger Outlet Fl	angeN m	13.5
	Exhaust Ma	inifold Insulation Acceptable		Yes/No	No No
		er Insulation Acceptable  NG SYSTEM		1 es/110	INO
		llowable pressure drop across	charge air cooler and	OEM CAC	
	piping(IMPI	D):		kPa	13
	Maximum Ir	ntake Manifold Temperature Di	fferential (Ambient to I	MT) (IMTD) °C	25
	Intake mani Intake mani	fold temperature for Fan-ON fold air temperature derate/		-°C	50
AIR INTAKE			rm temperature	•	58
AIN INTANE	Maximum Ir	ntake Air Restriction with Heav	v Duty Air Cleaner		
		ean Element		-kPa	3.7
		rty Element			6.2
		irt Holding Capacity with Heavy			53
		emperature Rise from Ambien			17
		ded intake piping size (inner di	ameter)	mm	76
LUBRICATION					
		erating Oil Pressure Range			
	— mi —ma	nimum low idleximum rated speed		kPa -kPa	207 345
		Oil Temperature			121
		with OP 9006 Oil Pan:High-Lo			14.2-12.3
		equired Lube System Capacity			16.4
		f Standard Oil Pan: (Values sta			
	— Fro	nt Down		0	40
		ont Up			40
FUEL CVCT	— Sid	e to Side		0	40
FUEL SYST		on System			BYC P7100
		Restriction at Lift Pump			13.6
		Restriction at the Supply Side of			67.7
		Flow(constant for all loads)			30
		,			
COOLING S		pacity-Engine Only		litro	10
		Coolant Friction Head External		iiiie	10
				kPa	35
		1500rpm		kPa	28
	Maximum S	Static Head of Coolant Above E			14
		nermostat (Modulating) Range	•		82-95
		essure Cap			69
		op Tank Temperature for Stan			104/100
ELECTRICA		·	<i>y</i>	0	. 3 ., . 30
		otor (Heavy Duty,Positive Enga	agement)	-volt	24V
	_	rging System,Negative Ground	-		
	-				40
		Illowable Resistance of Crankii	-	ohm	0.002
		ecommended Battery Capacity			
	-Cold S	Soal @ 10°F(-12℃)and Abo	ve	0°F CCA	400







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## Alternator

Alternator		
Poles	Num	4
Winding Connections (standard)		Star-serie
Frame Mounting		S-1 14"
Insulation	Class	H class
Enclosure (according IEC-34-5)		IP23
Exciter System		self-excited, 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	<ul><li>Front heat protection</li><li>Coolant (-30°C)</li></ul>	<ul> <li>Remote control panel</li> <li>ATS</li> <li>Remote controller</li> <li>Synchronizing controller</li> </ul>	• 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		

<sup>\*</sup> Short current only





<sup>\*\*</sup> Fixed setting