

Model: C550D5A

Powered by CUMMINS

Output Rating

MODEL		Power rating		Voltage available
		PRIME(1)	STANDBY(2)	
C550D5A	400V/50HZ	400KW	440KW	380/220V400/230V415/240V
	PF:0.8	500KVA	550KVA	

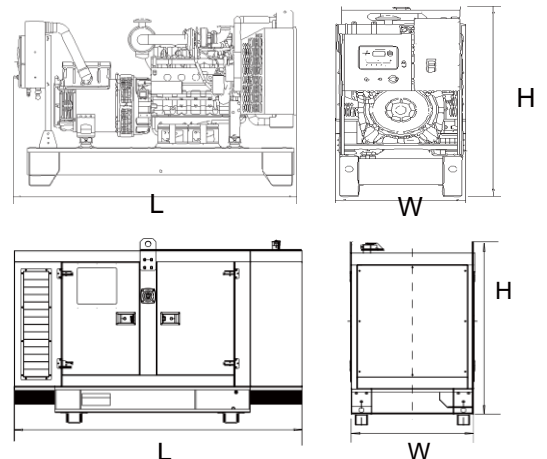
General Information

Model	C413D5A	
Engine	KTA19G3A	
Speed control type	Electronic	
Phase	3	
Control System	Digital	
System voltage	24V	
Frequency	50HZ	
Engine Speed(RPM)	1500	
Fuel Consumption L/hr	Standby power(2)	121
	Prime Power(1)	107
	75% prime power	82
	50% prime power	57



Dimension and Weight

Dimension	Open	Silent
Length(L)	3380mm	4570mm
Width (W)	1305mm	1540mm
Height (H)	1950mm	2200mm
Net Weight	4820KG	6500KG



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 operations 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 available 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 procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.



Engine Specification

GENERAL ENGINE DATA

Type.....	4-Cycle;In-line;6-Cylinder
Aspiration	Turbocharged,Aftercooled
Bore x Stroke - in...in. (mm..mm).....	6.5X6.5 (159x 159)
Displacement - in.3(L).....	1150 (19)
Compression Ratio	13.9:1

Dry Weight

Fan Hub to Flywheel Engine —lb(kg).....	3725(1690)
Fan Hub to Flywheel Engine —lb(kg).....	5900(2676)

Wet Weight

Fan Hub to Flywheel Engine —lb(kg).....	3880(1760)
Radiator Cooled Engine —lb(kg).....	6300(2858)

ENGINE MOUNTING

Moment of Inertia About Roll Axis -Lb.ft2(kg*M2).....	1876(79)
Maximum Allowable Back Pressure (1500/1800 rpm) —in.Hg(kPa).....	2.3/3(7.8/10.2)
Maximum Allowable Back Pressure —in.Hg(kPa).....	3(10)
Exhaust Pipe Size Normally Acceptable —in(mm).....	5(127)

AIR INDUCTION SYSTEM

Maximum Allowable Intake Air Restriction	
--With Clean Filter Element - in. H2O (kPa).....	15 (3.74)
Clean Normal Element —in.H2O(kPa).....	10 (2.49)

COOLING SYSTEM

Coolant Capacity	
After-cooler Only —U.S.Gal(L).....	6(23)
With heat exchanger HX 6076 (With out explanation tank) —U.S.Gal(L).....	53(199)
With explanation tank & LTA—U.S.Gal(L).....	30(112)

LUBRICATION SYSTEM

Oil Pressure @ Idle Speed - PSI (kPa).....	20Min (18) Min
@ Governed Speed - PSI (kPa).....	50-70 (345 - 483)
Maximum Allowable Oil Temperature - °F (°C).....	250 (121)

FUEL SYSTEM

Type Injection System.....	Direct Injection Cummins PT
Maximum Allowable Restriction to Fuel Pump	
-- With Clean Fuel Filter - in.Hg (kPa).....	4.0 (13.5)
-- With Dirty Fuel Filter - in.Hg (kPa).....	9.0 (30.48)
Maximum Allowable Head on Injector Return Line	
-- With Check Valve - in.Hg (kPa).....	7(22.0)
-- Without Check Valve - in.Hg (kPa).....	3 (8)
Starter (Heavy, Anode)—Volt.....	24
Battery Recharge System,Negative ground—A.....	35
Maximum Allowable Resistance of Starting Circuit—.....	0.002
Minimum Recommended Battery Capacity	
•Cold Soak at 50°F(10ÿ) or Above—0°F CCA.....	600
•Cold Soak at 32~50°F(0~10ÿ) or Above—0°F CCA.....	640
•Cold Soak at 0~32°F(-18~0ÿ) or Above—0°F CCA.....	900



▪ 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
<ul style="list-style-type: none"> •Water Jacket Preheater •Oil Preheater 	<ul style="list-style-type: none"> •Winding Temperature measuring Instrument •Alternator Preheater •PMG •Anti-damp and anti-corrosion treatment •Anti-condensation heater 	<ul style="list-style-type: none"> •Tools with the machine 	<ul style="list-style-type: none"> • Low fuel level alarm •Automatic fuel feeding system •Fuel T-valves 	<ul style="list-style-type: none"> •Rental Type Canopy •Trailer
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
<ul style="list-style-type: none"> •Oil with the machine 	<ul style="list-style-type: none"> •Protection board from hotness 	<ul style="list-style-type: none"> • Front heat protection • Coolant (-30°C) 	<ul style="list-style-type: none"> •Remote control panel • ATS • Remote controller • Synchronizing controller 	<ul style="list-style-type: none"> • 415/240V • 380/220V • 220/127V • 220/127V • 200-115V



Control Panel



Product description

- Single gen-set controller for Stand-by and Prime-power 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	Description	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

