

## Model: DE275D5

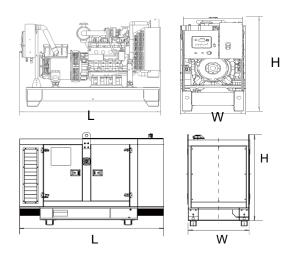
Powered by DEUTZ

Output Ratin	g			
MODEL		Powe	r rating	Voltage available
		PRIME(1)	STANDBY(2)	
DE275D5	400V/50HZ	200KW	220KW	380/220V 400/230V 415/240V
	PF:0.8	250KVA	275KVA	

General Information			
Model		DE275D5	
	Engine	TCD2013L6 4V	
Speed	d Control Type	Electrical	
	Phase	3	
Control System		Digital	
System Voltage		12/24V	
Fr	requency	50HZ	
Engine	Speed (RPM)	1500	
	100% Prime Power	49.9	
Fuel	75% Prime Power	39.9	
Consumption	50% Prime Power	28.7	
(L/H)	25% Prime Power	14.6	



D	Dimension and Weight						
	Dimens	ion	Open	Silent			
	Length	(L)	2920mm	4000mm			
	Width	(W)	930mm	1288mm			
	Height	(H)	1810mm	2150mm			
	Net We	ight	2035KG	3080KG			



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.







# Engine Specification

General		
Aspiration		turbo, CAC
No of cylinders		6
Configuration		Common Rail
Injection system		
Displacement	[1]	7.15
Bore	[mm]	108
Stroke	[mm]	130
Compression ratio		17
Mean effective pressure	[bar]	28.0
Rotation (looking at flywheel)		CCW
No of teeth on flywheel ring gear		129
Engine without flywheel	[kg m²]	0.57
Flywheel (standard genset spec.)	[kg m²]	2.6
Weight		
Engine dry, w/o cooling system	[kg]	764
Engine with cooling system	[kg]	954
Lubrication system		TD0400 00 0000/0
Oil specification		TR0199-99-3002/6
Oil consumption (as % of fuel consumption)	rin	0.02
Oil capacity (sump)	[1]	24
Min. oil pressure (warning) Min. oil pressure (shut down)	[bar]	1.5
. ,	[bar]	1.35
Cooling System		
Max. perm. coolant outlet temperature	[°C]	103
Max. perm. flow resistance (cool. syst. and piping)	[bar]	0,33
Max. temperature of coolant (warning)	[°C]	108
Max. temperature of coolant (shutdown)	[°C]	110
Temperature at which thermostat starts to open	[°C]	83
Temperature at which thermostat is fully open	[°C]	98
Delivery of coolant pump	[m³/h]	14.7
Min. pressure before coolant pump	[bar]	0,3
Temperature at CAC outlet at standard conditions	[°C]	40
DEUTZ cooling system		
Coolant capacity (engine)	[1]	9.8
Coolant capacity (incl. cooling unit)	[1]	27.0
Air to boil (max. permissible cool. air temp. at fan)	[°C]	54
Fan power consumption <sup>4</sup>	[kW]	11.6
Cooling air flow	[m³/h]	16200
Air pressure loss, external Heat Balance	[ mbar ]	1,5
Heat dissipation (engine radiator) <sup>6</sup>	[[4]4/]	122.2
,	[kW]	122.3
Heat dissipation (CAC) <sup>6</sup> Heat dissipation (convection)	[kW]	48 25
,	[kW]	25
Inlet / Exhaust Data		
Max. intake depression (Switch setting)	[mbar]	30
Combustion air volume	[m <sup>3</sup> /h]	909
Max. exhaust back pressure	[mbar]	50
Max. exhaust gas temperature	[°C]	530
Exhaust gas flow (at above temp)	[m³/h]	2547
Electrical System		
Voltage	[V]	24
Starter	[kW]	5
Alternator output	[A]	80
Batteries (minimum capacity, cold start limit -5°C)	[Ah]	140







### 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	<ul><li>Front heat protection</li><li>Coolant (-30°C)</li></ul>	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		

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





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