# **CU100D5A** Industrial Range Powered By Cummins











Standards: 2006/42/EC Machinery safety, 2006/95/EC Low voltage, EN 60204-1: 2006+A1: 2009, EN ISO 12100: 2010, EN ISO 8528-13: 2016, ENISO 13849-1: 2015, EN 60204-1: 2018

PRP: Prime power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO

ESP: The standby power rating is applicable for suppling emergency power in variable load applications in accordance with ISO 8528-1.overload is not allowed.

Conditions: According to the standard, the nominal power assigned by the genset is given for  $25^{\circ}\,$  C air inlet temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30 % relative humidity.

#### **GENERATOR SPECIFICATION**

ITEMS	PRP	EPS
Power	90kVA	100kVA
Power	72kW	80kW
Frequency / Phase / Power factor	50Hz / 3P / PF0.8	
Standard voltage	400/230V	
Available voltage	380/220V · 415/240V	



Water-cooled



Three Phase







### **GENERAL INSTALLATION**

ITEMS	OPEN	SILENT	
Dimension(L*W*H) (mm)	1870*935*1495	2518*1054*1250	
Weight(kg)	1050	1250	
Fueltank(L)	195	130	
Sound pressure level @75% load&1m dB(A) @75% load&7m dB(A)		80 73	





NOTE: Weights and dimensions based on standard products. According to 2000/14/CE, sound data is provided at 7m for 75% prime power. For actual installation, please contact the manufacturer.

PERFORMANCE DATA			
Engine brand		CUMMINS	
Engine model		4BTA3.9-G13	
Fuel	- Fuel Diesel		
Aspiration		Jacket water Aftercooler	
Cooling		Water-cooled	
Governor		Electronic	
Cyl arrangement		4L	
Application		Prime & Standby	
Fuel consumption	100% ESP(L/H) 100% PRP(L/H) 75% PRP(L/H) 50% PRP(L/H)	21.0 18.8 14.1 10.1	



## **ENGINE SPECIFICATION**

BASIC DATA	
Engine brand	CUMMINS
Engine model	4BTA3.9-G13
Displacement	3.9L
No. of cyl / arrangement	4L
Bore x stroke	102x120mm
Compression ratio	18.0 : 1
Engine speed	1500rpm
Engine type	4-stroke diesel
EXHAUST SYSTEM	

Bore x stroke	102x120mm	
Compression ratio	18.0 : 1	
Engine speed	1500rpm	
Engine type	4-stroke diesel	
EXHAUST SYSTEM		
Exhaust stack gas temperature (max.)	404 °C	
Exhaust gas flow rate (max. )	167 L/S	
Exhaust system backpressure (maximum allowable)	10 kPa	
FUEL SYSTEM		
Maximum restriction at lift pump	13.6 kPa	
Max. fuel flow	30 L/H	

COOLING SYSTEM	
Radiator air flow	150 m³/min
Total oil capacity	10.9L
Total coolant capacity	21.9 L

DC24V
2x60Ah(580CCA)
DC24V/40A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.2kPa
Combustion air inlet flow rate	95 L/S
Max. allowable combustion air inlet temp	50°C

## ALTERNATOR SPECIFICATION

BASIC DATA		BASIC DATA	
Insulation & temperature rise	Class H/H	Туре	Brushless
Excitation type	Self-excited	No. of bearings	Single bearing
Winding leads	12	Coupling system	Flexible disc
Winding connections (standard)	Star	Maximum over speed	2250 RPM
Winding pitch	Two thirds	Coating type	Vacuum impregnation
Number of phase	Three phase	IP rating	IP23



## **CONTROL SYSTEM**

Key features

Single generator set controllercan be used in prime or standby scenarios



Manual and remote start, MRS application



Auto mains failure, AMF application



Genset power/frequency/factor /voltage/current detection



Engine / alternator / generator protections, emergency stop



Event log / running hours history / maintenance warning, LCD screen

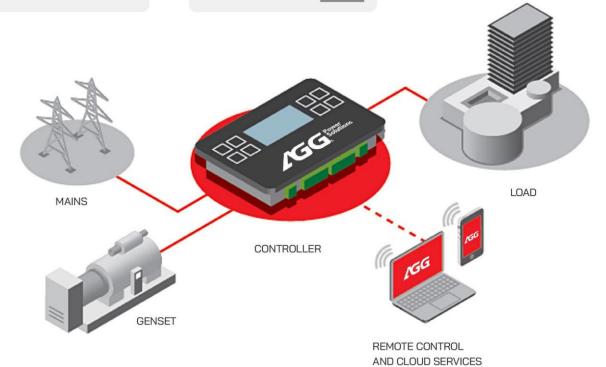


User access management, software and tools are easy to use



Input or output configuration, USB communication port







#### **GENSET VERSION**

#### STANDARD FEATURES

- Diesel engine, 50 degrees radiator, brushless alternator
- · Intelligent controller
- Output circuit breaker (up to1250A)
- Maintenance-free start battery, battery charge, battery switch
- · Steel industrial silencer, exhaust bellows and elbows
- · Steel chasis and anti-vibration shock absorbers
- Lifting and moving structure, expansion of oil and coolant discharge
- · Moving parts protection, hot parts protection
- · Special toolbox, delivery attached documentation

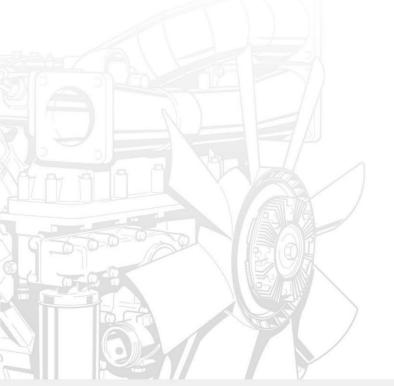












## OPTIONAL FEATURES

- Water jacket preheater
- Oil Preheater, oil level maintainer, oil manual pump
- Heavy air filtration
- · Residential silencer
- · Remote radiator, heat exchanger
- PMG/AREP excitation system
- Anti-condensation heater
- ALTERNATOR Winding/bearing RTD
  - Double bearing structure
  - IP44 protection class

#### CONTROL SYSTEM

**ENGINE** 

- · Synchronizing panel, remote control panel
- RS232/485, 4G & GPS wireless, ethernet communication card
- Additional digital/analog input/output
- Monitoring software, mobile APP
- Ni-Cad batteries

#### GENERATING SET

- · External fuel tank, automatic fuel feeding
- ATS/output /combining/distribution cabinet
- Load test cabinet
- Mobile trailer
- Customized design

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