# CU513E5 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	500kVA	513kVA
Power	400kW	410kW
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)	3300*1360*2145	4376*1554*2557
Weight(kg)	3400	4005
Fueltank(L)	800	1050
Sound pressure level @75% load&1m dB(A) @75% load&7m dB(A)		TBA TBA





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		QSZ13-G3	
Fuel	Diesel		
Aspiration		Turbocharged and Charge Air Cooled	
Cooling		Water-cooled	
Governor	Governor ECM		
Cyl arrangement	Cyl arrangement 6L		
Application		Prime & Standby	
Fuel consumption	100% ESP(L/H) 100% PRP(L/H) 75% PRP(L/H) 50% PRP(L/H)	107.1 93.2 69.9 49	



## **ENGINE SPECIFICATION**

BASIC DATA	
Engine brand	CUMMINS
Engine model	QSZ13-G3
Displacement	13.0L
No. of cyl / arrangement	6L
Bore x stroke	130x163mm
Compression ratio	17.0 : 1
Engine speed	1500rpm
Engine type	4-stroke diesel
EXHAUST SYSTEM	

Compression ratio	17.0 : 1	
Engine speed	1500rpm	
Engine type	4-stroke diesel	
EXHAUST SYSTEM		
Exhaust stack gas temperature (max. )	523 °C	
Exhaust gas flow rate (max. )	36.4 kg/min	
Exhaust system backpressure (maximum allowable)	13 kPa	
FUEL SYSTEM		
Maximum restriction at lift pump	27 kPa	
Max. fuel flow	244 L/H	

COOLING SYSTEM	
Radiator air flow	8.7 m³/s
Total oil capacity	75.33L
Total coolant capacity	73.1L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V
Start battery	2x120Ah(850CCA)
Battery charging alternator	DC24V/TBA

Dry type
6.2 kPa
29.6 m³/min
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	6	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

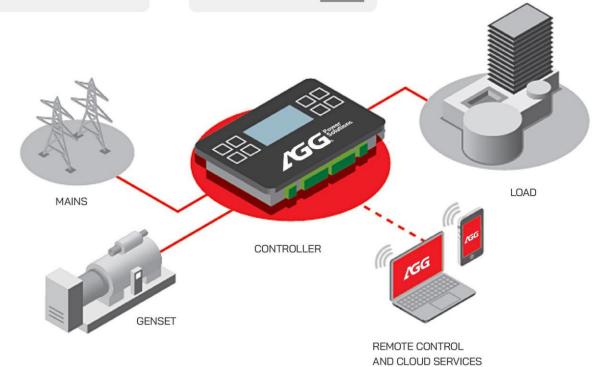


User access management, software and tools are easy to use



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

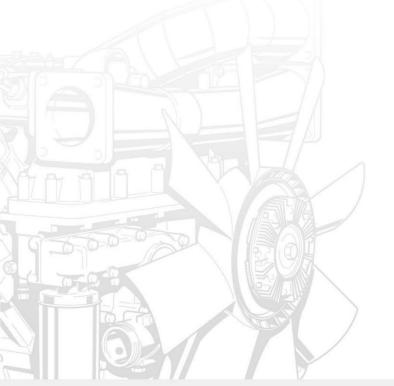












## OPTIONAL FEATURES

- 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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