









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	50kVA	55kVA
Power	40kW	44kW
Frequency / Phase / Power factor	60Hz / 3P / PF0.8	
Standard voltage	220/127V	
Available voltage	240/138V	



Water-cooled



Three Phase







GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H) (mm)	1800*935*1470	2298*954*1250
Weight(kg)	830	1100
Fueltank(L)	195	90
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.

PERFORMANC	E DATA	
Engine brand		CUMMINS
Engine model		4BT3.9-G2
Fuel		Diesel
Aspiration		Turbo-charging
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)	11.7 10.7 8.4 6.2



ENGINE SPECIFICATION

BASIC DATA	
Engine brand	CUMMINS
Engine model	4BT3.9-G2
Displacement	3.9L
No. of cyl / arrangement	4L
Bore x stroke	102x120mm
Compression ratio	18.0 : 1
Engine speed	1800rpm
Engine type	4-stroke diesel
EXHAUST SYSTEM	

No. of cyl / arrangement	4L	
Bore x stroke	102x120mm	
Compression ratio	18.0 : 1	
Engine speed	1800rpm	
Engine type	4-stroke diesel	
EXHAUST SYSTEM		
Exhaust stack gas temperature (max.)	373°C	
Exhaust gas flow rate (max.)	107 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	120 m³/min
Total oil capacity	10.9L
Total coolant capacity	19 L

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V
Start battery	2x60Ah(580CCA)
Battery charging alternator	DC24V/40A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.2kPa
Combustion air inlet flow rate	54.3 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

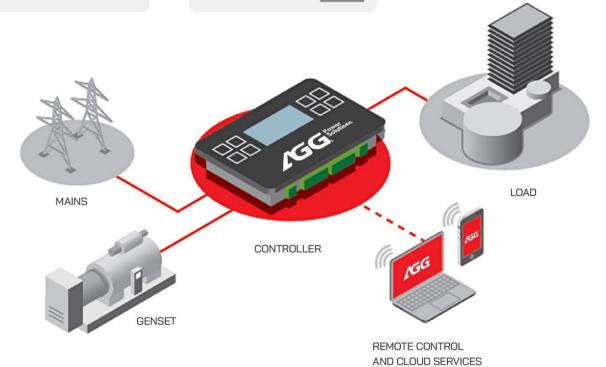


User access management, software and tools are easy to use



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

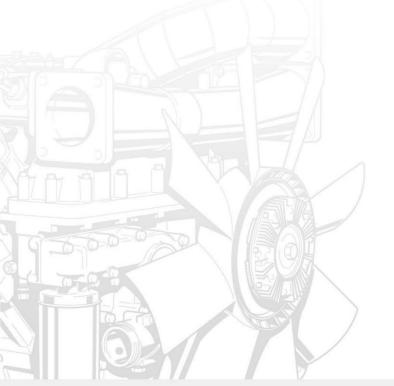












OPTIONAL FEATURES

- 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

Tel: +86 591 8639 6829 Fax: +86 591 8639 6929 Email: info@aggpowersolutions.com Web: www.aggpower.co.uk

- Follow us @AGGPOWER
- Follow us @AGG Power Group
- Follow us @AGG Power Group

