









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° 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	563kVA
Power	400kW	450kW
Frequency / Phase / Power factor	60Hz / 3P / PF0.8	
Standard voltage	220/127V	
Available voltage	220/127V	



Water-cooled



Three Phase







GENERAL INSTALLATION

ITEMS	OPEN	SILENT	
Dimension(L*W*H) (mm)	3450*1210*2133	4658*1455*2508	
Weight(kg)	3870	4700	
Fueltank(L)	800	1000	
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		PERKINS	
Engine model		2506C-E15TAG1	
Fuel		Diesel	
Aspiration		Turbocharged, air to air Charge cooling	
Cooling		Water-cooled	
Governor		ECM	
Cyl arrangement		6L	
Application		Prime & Standby	
Fuel consumption	100% ESP(L/H) 100% PRP(L/H) 75% PRP(L/H) 50% PRP(L/H)	114 100 77 57	



ENGINE SPECIFICATION

BASIC DATA	
Engine brand	PERKINS
Engine model	2506C-E15TAG1
Displacement	15 L
No. of cyl / arrangement	6L
Bore x stroke	137x171mm
Compression ratio	16:1
Engine speed	1800rpm
Engine type	4-stroke diesel
EXHAUST SYSTEM	
Exhaust stack gas temperature (max.)	590 °C

COOLING SYSTEM	
Radiator air flow	822 m³/min
Total oil capacity	62 L
Total coolant capacity	58 L

EXHAUST SYSTEM	
Exhaust stack gas temperature (max.)	590 °C
Exhaust gas flow rate (max.)	105 m³/min
Exhaust system backpressure (maximum allowable)	6.8 kPa
FUEL SYSTEM	

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC24V
Start battery	2x120Ah(850CCA)
Battery charging alternator	DC24V/70A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	6.2 kPa
Combustion air inlet flow rate	38 m³/min
Max. allowable combustion air inlet temp	50°C

ALTERNATOR SPECIFICATION

Maximum restriction at lift pump

Max. fuel flow

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

5.5 Bar

457 L/H



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

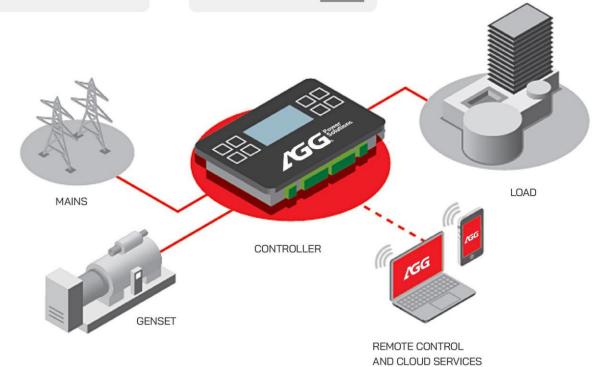


User access management, software and tools are easy to use



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

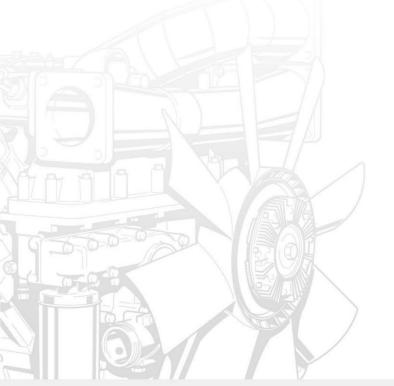












OPTIONAL FEATURES

- 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

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