









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	53kVA	59kVA
Power	42kW	47kW
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)	1860*750*1296	2298*954*1250	
Weight(kg)	805	1060	
Fueltank(L)	125	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		PERKINS
Engine model		1103A-33TG1
Fuel		Diesel
Aspiration		Turbocharged
Cooling		Water-cooled
Governor		Mechanical
Cyl arrangement		3L
Application		Prime & Standby
Fuel consumption	100% ESP(L/H) 100% PRP(L/H) 75% PRP(L/H) 50% PRP(L/H)	8.1 7.2 5.61 4.06



## **ENGINE SPECIFICATION**

BASIC DATA	
Engine brand	PERKINS
Engine model	1103A-33TG1
Displacement	3.3 L
No. of cyl / arrangement	3 L
Bore x stroke	105 x 127mm
Compression ratio	17.25 : 1
Engine speed	1800rpm
Engine type	4-stroke diesel
EXHAUST SYSTEM	
Exhaust stack gas temperature (max. )	551°C
Exhaust gas flow rate (max. )	9.5 m³/min

COOLING SYSTEM	
Radiator air flow	70 m³/min
Total oil capacity	8.3 L
Total coolant capacity	10.2 L

Engine type	4-stroke diesel
EXHAUST SYSTEM	
Exhaust stack gas temperature (max.)	551 °C
Exhaust gas flow rate (max. )	9.5 m³/min
Exhaust system backpressure (maximum allowable)	15 kPa
FUEL SYSTEM	

ELECTRICAL SYSTEM	
Starter motor rated voltage	DC12V
Start battery	60Ah(580CCA)
Battery charging alternator	DC12V/65A

INLET AIR	
Air filter	Dry type
Max. combustion air Intake restriction	8.0 kPa
Combustion air inlet flow rate	3.9 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

75 kPa

150 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

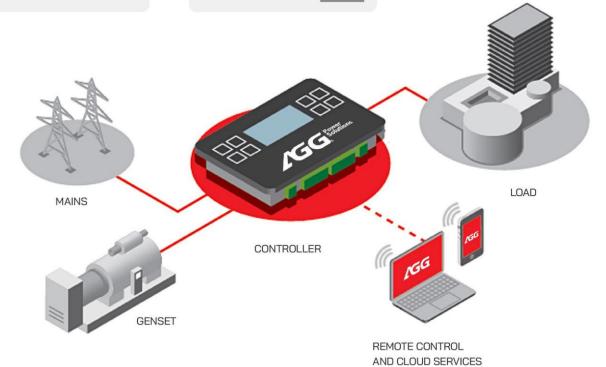


User access management, software and tools are easy to use



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

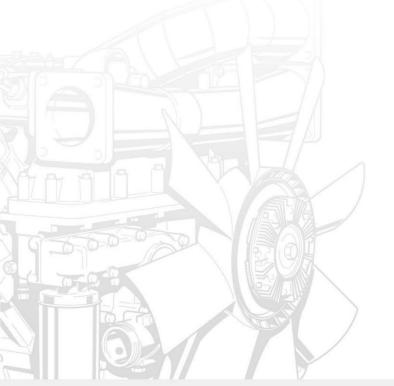












### OPTIONAL FEATURES

- 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

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