

AOSIF Perkins Series

Product introduction

AOSiF
POWER GENERATOR



Model AP11 Generator set

10KVA/10KW



XIAMEN AOSIF ENGINEERING LTD.

General Performance Data

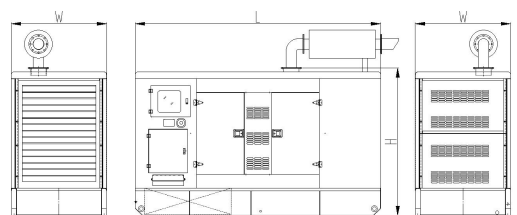
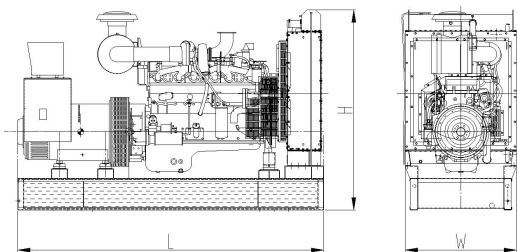
Prime Power	10KVA/10KW	Engine	Brand	Perkins
Stand by Power	11KVA/11KW		Model	403A-15G1
Frequency/Speed	50Hz/1500rpm	Control module	DeepSea	
Rated Power Factor(cosφ)	1.0	Rated Current	43A	
Standard Voltage	230V	Capacity of Breaker	63A	
Phases	1	Starting Voltage	DC12V	

Fuel consumption

Rated output	Fuel consumption rate	
110%Standby	251 g/KW.h	4.08 L/h
100%Prime	248 g/KW.h	3.67 L/h
75%Prime	252 g/KW.h	2.79 L/h
50%Prime	277 g/KW.h	2.04 L/h
25%Prime	360 g/KW.h	1.32 L/h

Standards followed

ISO9001	ISO14001
ISO8528	ISO12100
ISO13849	EN12601
GB12786	GB/T2820
IEC60034	IEC60204
CE	RETIE



Dimensions and Weights

Type	Open	Silent
Length(mm)	1400	1900
Width(mm)	670	1000
Height(mm)	1250	1340
Weight(kg)	550	860
Base fuel tank volume (L)	75	75

Engine specification

Basic parameter

Manufacturer	Perkins
Model	403A-15G1
No. of cylinder	3
Type	4 cycle, Vertical In-line
Prime Power	12.2kw /16.6HP
Standby Power	13.5kw /18.4HP
Induction system	Naturally aspirated
Governor	Mechanical
Bore x Stroke	84x90mm
Displacement	1.496L
Compression ratio	22.5:1
Oil Capacity(Total)	6.0L
Coolant Capacity(Engine only)	6.0L
Cranking Motor Voltage	DC12V

Fuel System

Type Injection system	Indirect injection
Min. Allowable flow of fuel to fuel pump	63L/h

Lubrication system

Oil Pressure	
---Idle speed	-
---Rated speed	Min 120kPa
Max. allowable oil temperature	125°C
Oil Pan capacity - Low/High	4.5L/6.0L
Total system capacity	-
Angularity of oil pan-Front Down	35°

Air induction system

Maximum allowable intake air restriction	
---with clean filter element	3.0kPa
---with dirty filter element	6.4kPa

---air filter type	Dry element type
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Exhaust system

Max. allowable back pressure	10.2kPa
Standard exhaust pipe diameter	42mm

Cooling system

Coolant capacity	
---Engine only	2.6L
---Total system	6.0L
---With heat exchanger	-
Standard thermostat(modulating) range	82-95 °C
Max. coolant temperature	112°C
Temperature rise across engine	5.1°C

Electric system

Min. recommended battery capacity (12V)	
Alternato	15A
starter motor	2KW

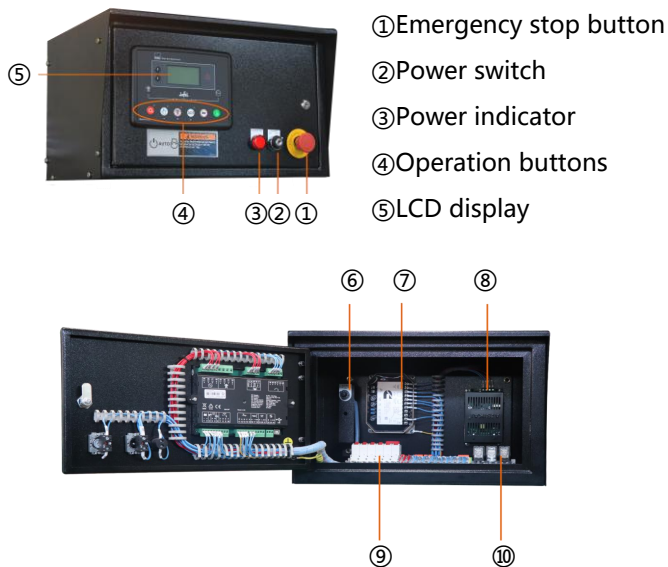
Alternator specification

Phases	3	Coating	Vacuum impregnation
Poles	4	Insulation class	H
Power factor(cosφ)	1.0	Protection	IP23
Winding connection	Star	Excitation system	Self-excited
Winding pitch	2/3	Bearing	Single Bearing
Voltage regulator type	AVR	Coupling	Flexible disc

Control system Introduction

Deepsea 6120 Auto start & auto mains failure control panel

Deepsea 6120 is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the front panel or by using DSE configuration Suite PC software



- ⑥ Voltage and frequency trimmer
- ⑦ Governor
- ⑧ Charger
- ⑨ MCB
- ⑩ Relay

Key Features:

- Auto start/stop, load transfer and alarming of generator
- Remote start on or off load
- With hierarchical loading function
- Multiple start/stop cycles can be preset
- 3 phase generator and mains voltage monitoring.
- Generator/load power detection(kW, kVA, kVA_r PF)
- Overload protection (kW)
- Load current monitoring and protection
- Engine speed protection
- Engine pre-heat
- Engine start idle & stop idle
- Battery voltage monitoring
- Start under the low battery
- 4 active outputs
- 4 digital inputs and 3 analogue inputs.
- 6 Custom digital input
- 6 outputs(4 configurable on magnetic pick-up, 6 configurable on Canbus version)
- DSE2130,DSE2157,DSE2548 expansion module can be connected
- Support 0-10V or 4-20mA oil pressure sensor

Main features:

- Multi language display
- Mains failure self starting
- The running time of the engine can be recorded to facilitate the maintenance and repair of the unit
- User-friendly set-up and button layout
- LCD display can display multiple parameters at the same time
- Support EFI engine
- IP65 rating (with optional gasket)
- PC and front panel configuration
- 100 event records
- Data recording and trend analysis

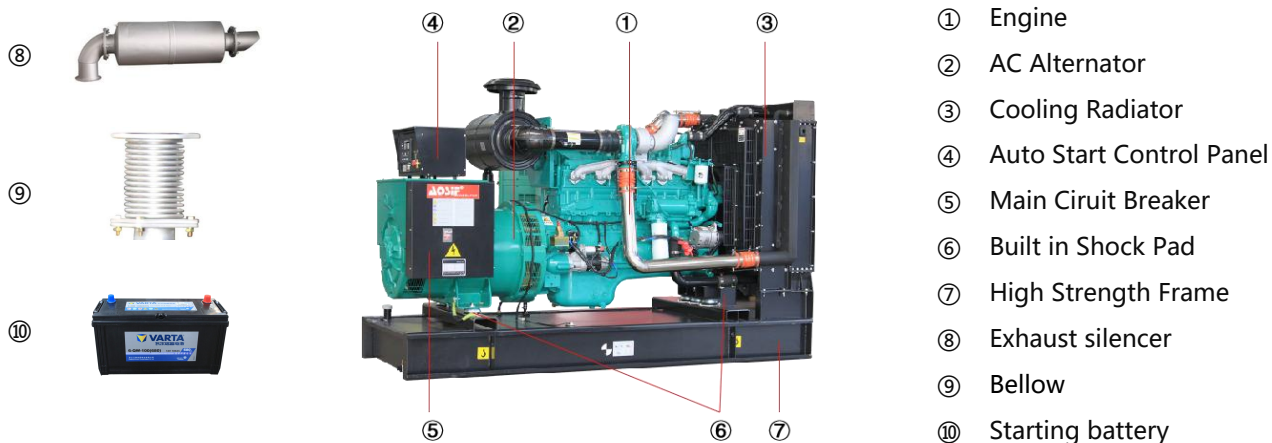
Protection:

- Two sets of protection parameters can be preset
- Normal alarm, electrical trip and shutdown alarm can be set to effectively monitor the engine speed,oil pressure, water temperature and oil level, as well as the frequency, voltage, current and power of the alternator, for complete engine/alternator protection
- Low Oil Pressure
- High water Temperature
- High voltage and low voltage
- Overspeed
- Emergency stop
- Fail to start

Decomposition diagram introduction of AOSIF Typical Canopy



Standard supply scope:



Optional supply scope:

Genset	Engine	Alternator	Control system
<ul style="list-style-type: none"> • Tool box • Base fuel tank • External daily fuel tank • Trailer 	<ul style="list-style-type: none"> • Fuel heater • Fuel and water separator 	<ul style="list-style-type: none"> • Temp. detector for winding and bearing • PMG • Antirust, mildew and salt fog treatment • Anti condensation heater 	<ul style="list-style-type: none"> • ATS • Synchronization System • Adjustable earth relay
Breaker	Fuel system	Lub-oil system	Cooling system
<ul style="list-style-type: none"> • ABB • Schneider 	<ul style="list-style-type: none"> • Low fuel level alarm • Auto Fuel Pump • T Valve 	<ul style="list-style-type: none"> • Lub oil heater • Temp.-sensor • Oil drain Pump 	<ul style="list-style-type: none"> • Elec.coolant Heater

Our Promises

- AOSIF Engineering provides a full line of brand new and high quality products.
- Each unit passes strictly loading test in factory before shipment.
- Quality Warranty is provided strictly in accordance with warranty terms.
- Three level service guarantee: Aosif dealers, Service outlets of engine/alternator manufacturers, Aosif service team.



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You may get more information from our official account.

Specifications are subject to change without notice.