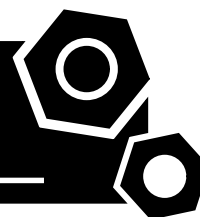


**Generator set**  
**Sound-proof type**  
**PK10S**

# **SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance European (CE)
- China Compulsory Certification (CCC)
- TLC Quality Certification (TLC)
- ISO8528-1995
- GB/T2820-1997

### Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 45°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 80%.
- Altitude: Below one thousand (1000) meters above sea Level.

### Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

### Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

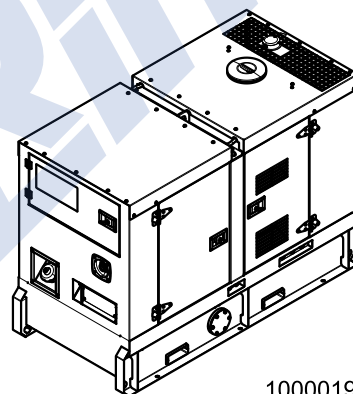
## 2 General Features

- KUBOTA engine D1105-BG
- Close coupled to a Stamford alternator PI044H
- Microprocessor control module PLC-702
- 1-Phase 63A main circuit breaker
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 1x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 8 hours running
- Drain points for fuel tank
- Operator's Manual / Parts Manual / Specifications

## 3 Equipment Specification

### General technical data

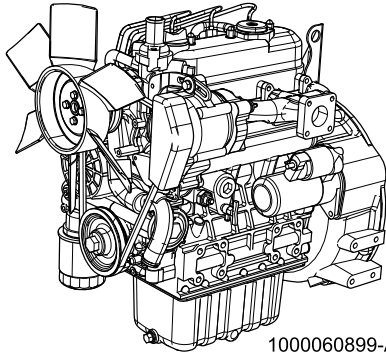


1000019770-AP1-A4

Model.....	PK10S		
Structure type .....	RS		
Tank capacity.....	90L		
Dry weigh.....	651.3kg		
Noise level @7m .....	N/A		
Dimensions L×W×H.....	1732×873.5×1221mm		
Standby Power .....	11kVA/8.8kW		
Prime Power .....	10kVA/8kW		

Voltage	220V	230V	240V
Ampere	45.5A	43.5A	41.7A

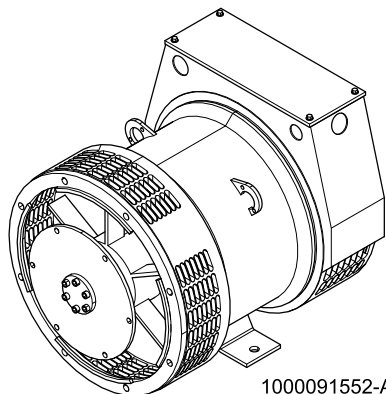
## Diesel engine



1000060899-AP1-A5

Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	D1105-BG
Dimensions L×W×H.....	549.3×398.0×604.7mm
Dry Weigh (approx.) .....	93kg
Number of Cylinders.....	3
Bore.....	78mm
Stroke.....	78.4mm
Displacement.....	1.123L
Compression Ratio.....	22
Type of injection.....	N/A
Intake System.....	Natural aspirated
Intake Resistance.....	1.96kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12V
Type of Fuel.....	No.2-D(ASTMD975)
Type of Oil.....	Better than API CD class
Oil Capacity.....	5.1L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	6.4L
Back Pressure.....	≤7.07kPa
Standby Power.....	11.5kW
Continuous Power.....	10.1kW
Fuel Consumption(100%load).....	220g/kW.h

## Alternator

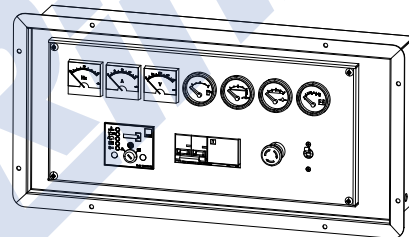


1000091552-AP1-A1

Alternator Manufacturer/Brand..... Stamford

Alternator Model.....	PI044H
Exciter.....	Brushless
Cooling Fan.....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class.....	H
Winding Pitch.....	2/3
Terminals.....	12
Drip Proof.....	IP23
Altitude.....	≤1000m
Overspeed.....	2250rpm
Air Flow.....	0.11 m³/s(50Hz),0.135m³/s(60Hz)
Voltage Regulation.....	±0.5 %
Total harmonic TGH / THCat no load < 1.5 % - on load < 5 %	
Telephone Interference.....	THF<2%;TIF<50

## PLC-702 Control System



1000093111-AP1-A3

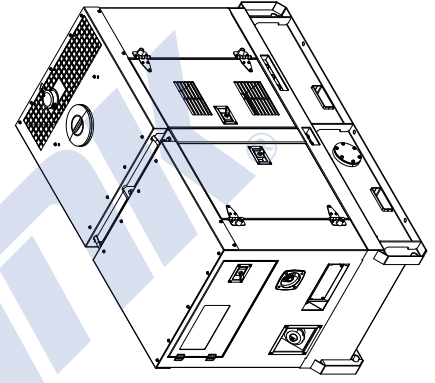
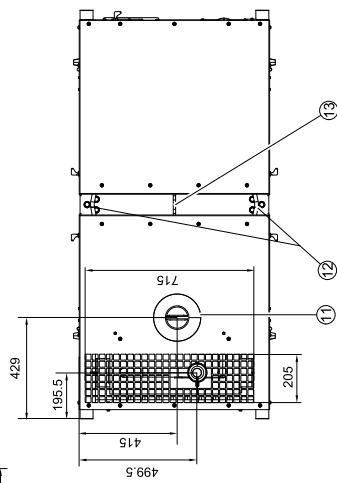
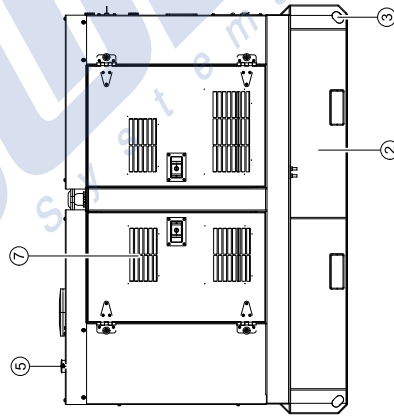
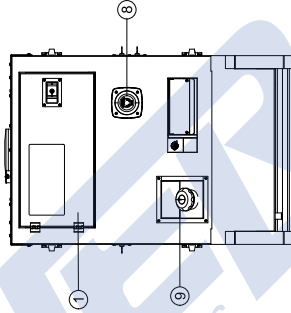
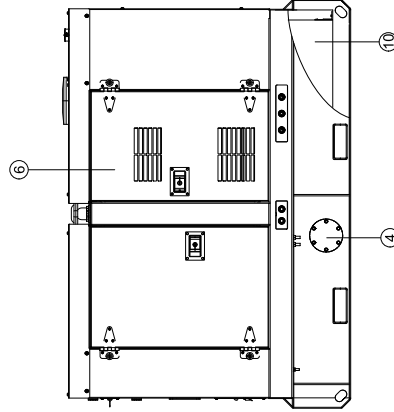
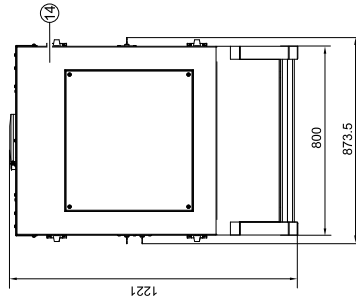
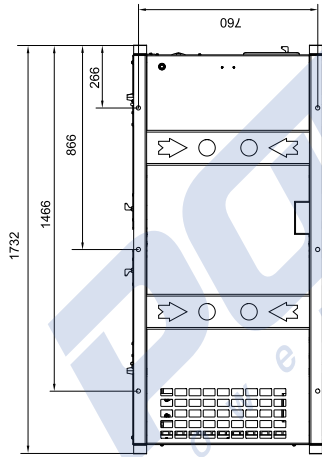
PLC-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

### Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

## 4 Overall Dimensions

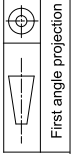
1000019770-DR1-A4



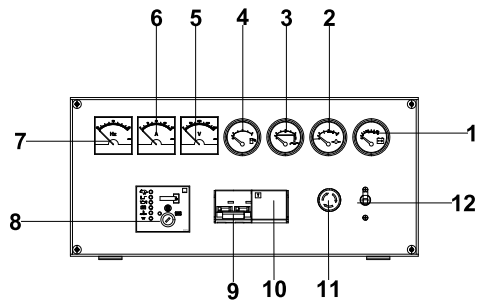
**Technical Requirement:**  
 1. The surface flatness is less than 1/1000 of diagonal.  
 2. The clearance between components must be even.  
 3. The surface of the components must be flat and smooth.  
 4. Scratch and damage are not allowable on the surface of components.

Dimensions L x W x H	Fuel tank capacity	Dry weight
1732x873.5x1221mm	90L	651.3kg

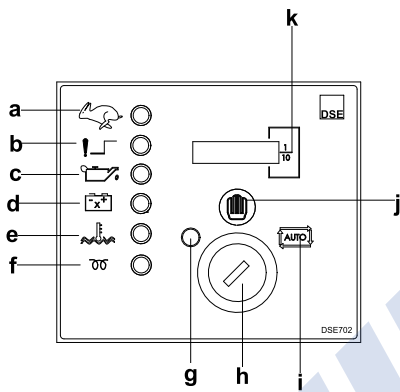
- ⑬ Canopy
- ⑬ Lifting lug
- ⑫ Roping lug
- ⑪ Coolant inlet
- ⑩ Fuel tank
- ⑨ Fuel inlet
- ⑧ Emergency stop switch
- ⑦ Air inlet
- ⑥ Access door
- ⑤ Exhaust gas outlet
- ④ Fuel drain
- ③ Tie down
- ② Base frame
- ① Control cabinet



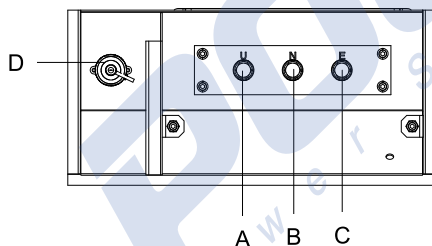
## 5 Control System



Control cabinet



Control panel



Field wiring cabinet

Ref.	Description
1	Battery voltage meter
2	Oil pressure meter
3	Water temperature meter
4	Fuel level meter
5	Voltage meter
6	Current meter
7	Frequency meter
8	PLC-702 control module
9	Main circuit breaker
10	RCD
11	Emergency stop button
12	Breaker

a	Over speed protection LED
b	Alarm LED
c	Low oil pressure protection LED
d	Charge failure warning LED
e	High engine temperature protection LED
f	Pre-heat LED
g	Stop model position
h	Control module key switch
i	Auto start position
j	Manual start button
k	Time counter

A	Live wire terminal
B	Neutral wire terminal
C	Ground wire terminal
D	ATS Connector

1000019770-A4-E
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01.2010
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**POWERLINK**<sup>®</sup>  
Power Systems

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contact Power Link or your local distributors please.*