

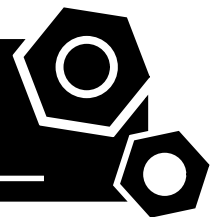
**Generator set**

**Sound-proof type**

**PK15S-AU**

**SPECIFICATIONS**

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**RK series**  
**PK15S-AU**  
 50 Hz @ 1500rpm, 1-phase/3-wiring

**1 Standards & Conditions**

**Design Standards**

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009
- AS 3000-1997
- AS 3010.1-1988

**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 90%.
- 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.

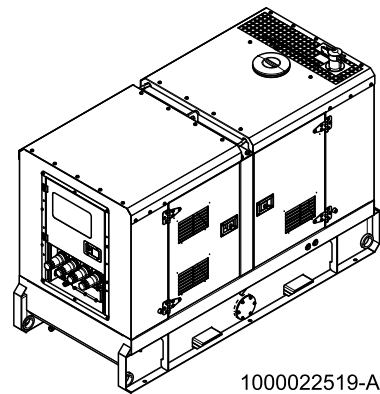
**2 General Features**

- KUBOTA engine D1703-BG
- Close coupled to a Stamford alternator PI144E
- Microprocessor control module PLC-702
- SCHNEIDER main circuit breaker: 80A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited , SHUNT
- A.V.R model: AS480
- 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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 27 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

**3 Equipment Specification**

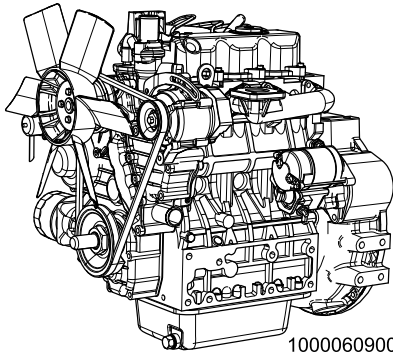
**General technical data**



Model..... PK15S-AU  
 Structure type .....RS  
 Tank capacity.....100L  
 Dry weigh.....771kg  
 Noise level @7m .....N/A  
 Dimensions L×W×H..... 1983x928x1298mm  
 Standby Power ..... 16kVA/13kW  
 Prime Power ..... 15kVA/12kW

Voltage	220V	230V	240V		
Ampere	68.1A	65.2A	62.5A		
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	2.0	2.7	3.6	4.1

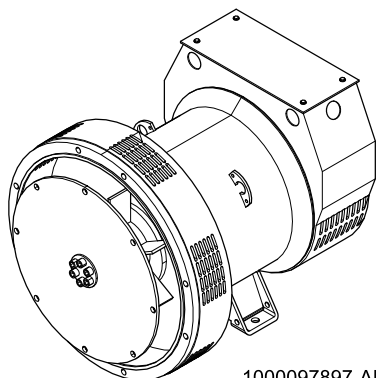
## Diesel engine



1000060900-AP1-A7

Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	D1703-BG
Dimensions L×W×H.....	608.4×548.3×642.8mm
Dry Weigh (approx.) .....	148kg
Number of Cylinders.....	3
Bore.....	87mm
Stroke.....	92.4mm
Displacement.....	1.647L
Compression Ratio.....	23
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 .....	Class CF lubricating oil
Oil Capacity .....	7.6L
Type of Coolant .....	Glycol mixture
Coolant Capacity.....	7.1L
Back Pressure .....	≤7.07kPa
Standby Power .....	15.1kW
Prime Power.....	12.8kW
Fuel Consumption(100%load).....	219g/kW.h

## Alternator

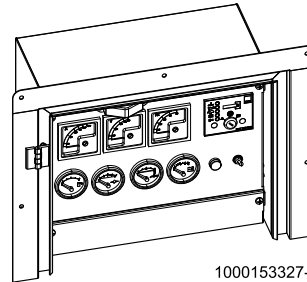


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Alternator Manufacturer/Brand.....	Stamford
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Alternator Model .....	PI144E
Exciter.....	Brushless
Cooling Fan .....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class .....	H
Winding Pitch.....	2/3
Terminals .....	4
Drip Proof .....	IP23
Altitude.....	≤1000m
Overspeed .....	2250rpm
Air Flow.....	0.100 m³/sec(50Hz),0.122 m³/sec(60Hz)
Voltage Regulation .....	± 1.0 %
Total harmonic TGH / THC.....	at no load < 1.5% - on load < 5.0%
Telephone Interference.....	THF<2%;TIF<50

## PLC-702 Control System



1000153327-AP1-A1

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.

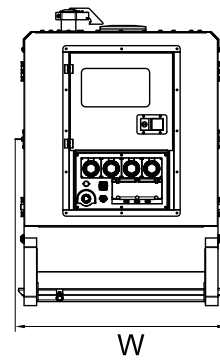
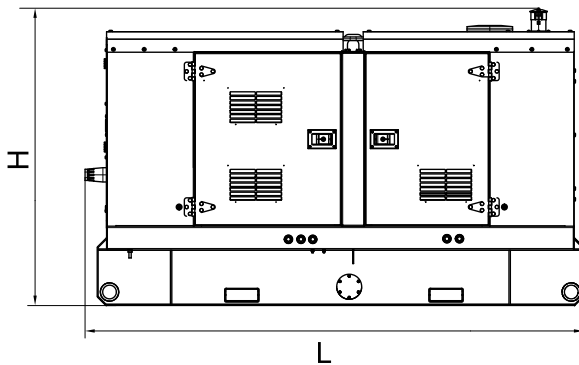
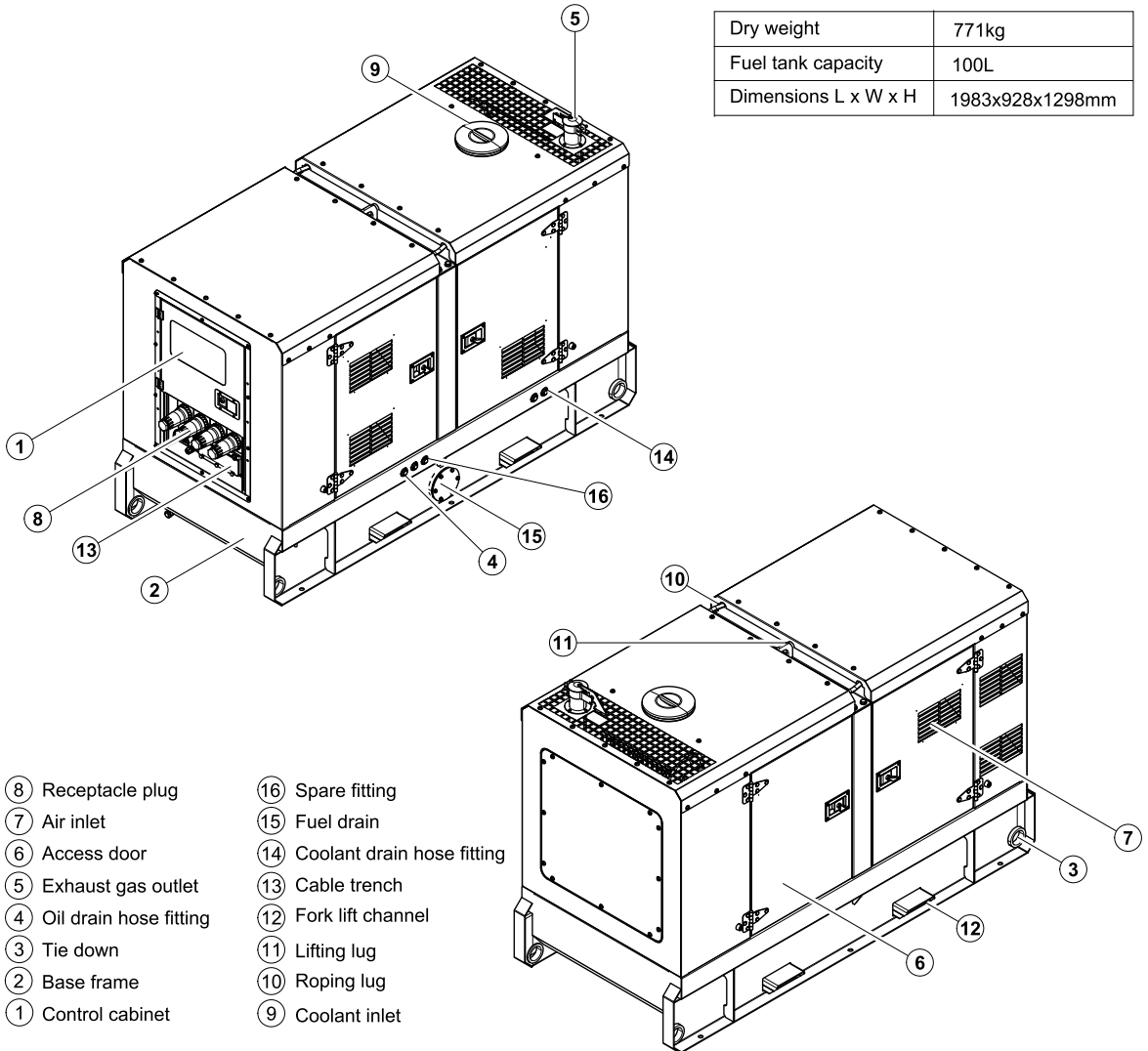
### Standard Control Function

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

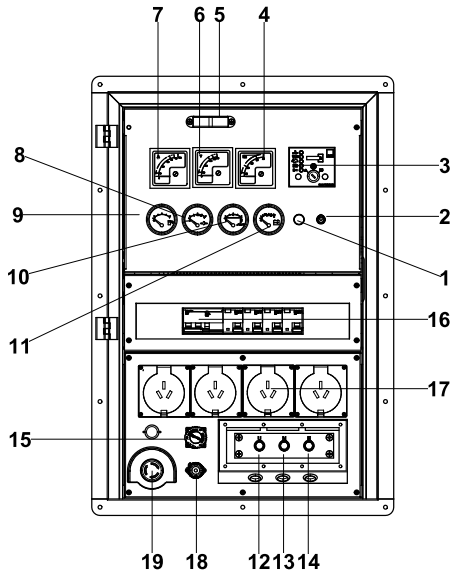
## 4 Overall Dimensions

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Dry weight	771kg
Fuel tank capacity	100L
Dimensions L x W x H	1983x928x1298mm

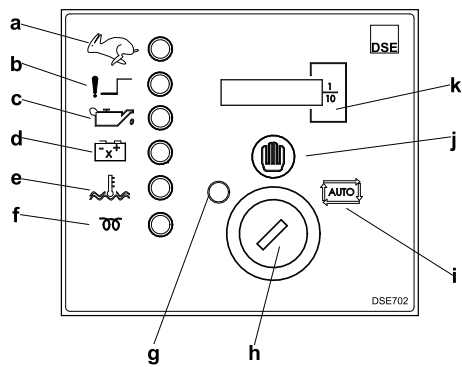


## 5 Control System



**Control & field wiring cabinet**

Ref.	Description
1	Charge indicator
2	Control cabinet lamp switch
3	Control module
4	Frequency meter
5	Control cabinet lamp
6	Voltage meter
7	Current meter
8	Oil pressure meter
9	Fuel level meter
10	Water temperature meter
11	Battery voltage meter
12	Live wire terminal
13	Neutral wire terminal
14	Ground wire terminal
15	ATS communication interface
16	Main circuit breaker
17	4xSingle-phase convenience receptacle
18	Remote run connector
19	Emergency stop switch



**Control module**

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

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