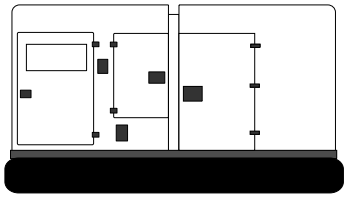
ASO genset



Generator set

Sound-proof type

PK30S

SPECIFICATIONS

SK series
PK30S
50 Hz @ 1500rpm, 1-phase/3-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-1995
- GB/T2820-1997

Environmental Operating Conditions

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

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

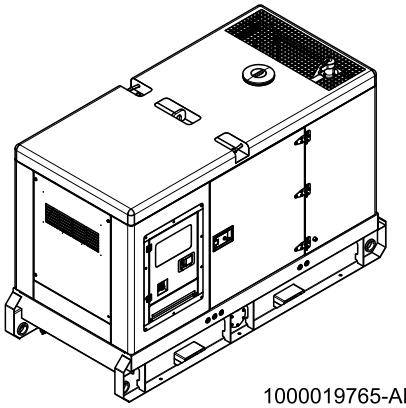
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Kubota engine V3300-BG
- Close coupled to a Stamford alternator PI144K
- Microprocessor control module PLC-702
- NADER main circuit breaker: 1-Phase 160A
- Rotate speed governor: Mechanical governor
- Excitation System: Self excited
- 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℃ 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 for 21 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data



1000019765-AP1-A3

Model.....PK30S

Structure type ..... R

Tank capacity.....148L

Dry weigh..... 1245kg

Noise level @7m .....N/A

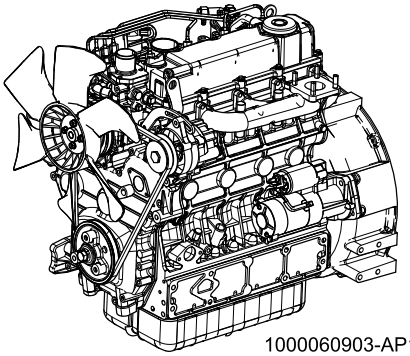
Dimensions L×W×H..... 2338×1115×1553mm

Standby Power 31kVA/24.5kW

Prime Power 30kVA/24kW

Voltage	220V	230V	240V
Ampere	136A	130A	125A

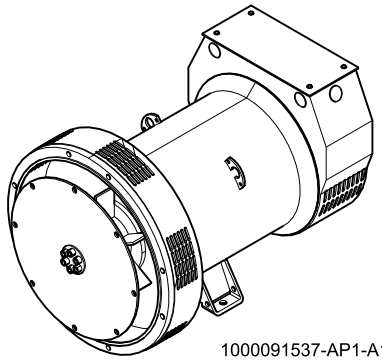
Diesel engine



1000060903-AP1-A5

Engine Manufacturer/Brand..... KUBOTA
Engine Model..... V3300-BG
Dimensions L×W×H.....769.2×536×751mm
Dry Weigh (approx.) 241kg
Number of Cylinders..... 4
Bore 98mm
Stroke 110mm
Displacement..... 3.318L
Compression Ratio..... 22.6
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..... Diesel Fuel No.2-D(ASTM D975)
Type of Oil ..... Class CF lubricating oil
Oil Capacity 13.2L
Type of Coolant ..... Glycol mixture
Coolant Capacity ..... N/A
Back Pressure ..... ≦7.07kPa
Standby Power 28.9kW
Continuous Power 26.3kW
Fuel Consumption(100%load)..... 7L/h

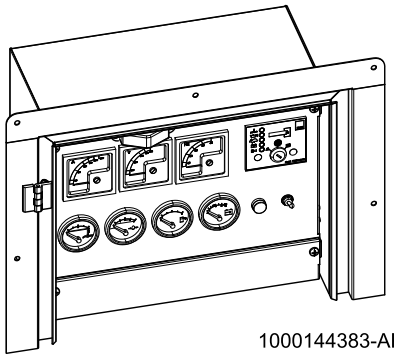
Alternator



1000091537-AP1-A1

Alternator Manufacturer/Brand ..... Stamford
Alternator Model PI144K
Exciter..... Brushless
Cooling Fan ..... Plastic
Windings..... 100% copper
Insulation Class ..... H
Winding Pitch..... 2/3
Terminals 12
Drip Proof IP23
Altitude..... ≤1000m
Overspeed 2250rpm
Air Flow..... 0.135m³/s(50HZ),0.165m³/s(60HZ)
Voltage Regulation ..... ±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%
Telephone Interference..... THF<2%;TIF<50

PLC-702 Control System



1000144383-AP1-B3

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.

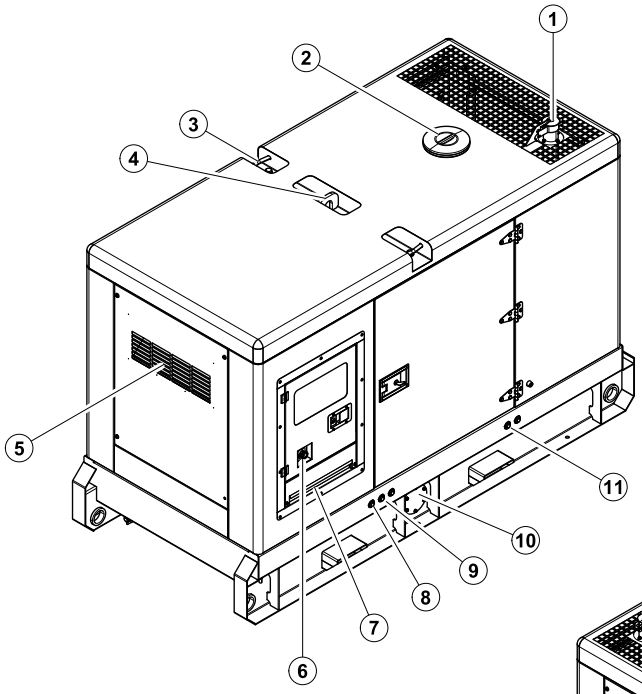
Standard Control Function

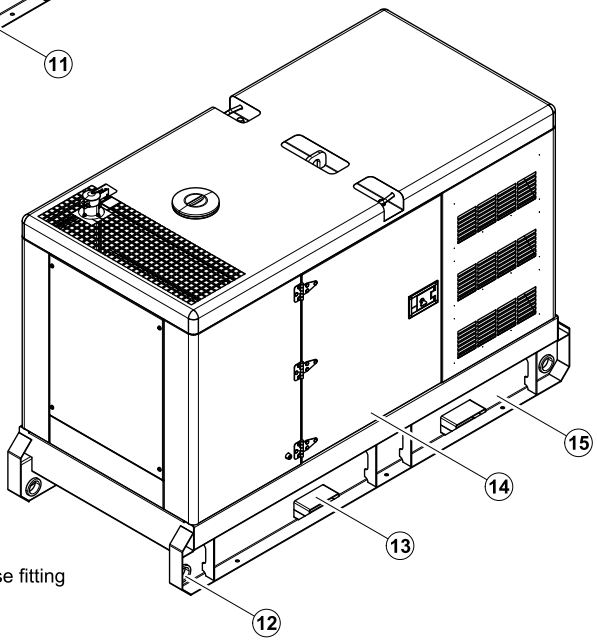
- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

4 Overall Dimensions

1000019765-DR1-A3

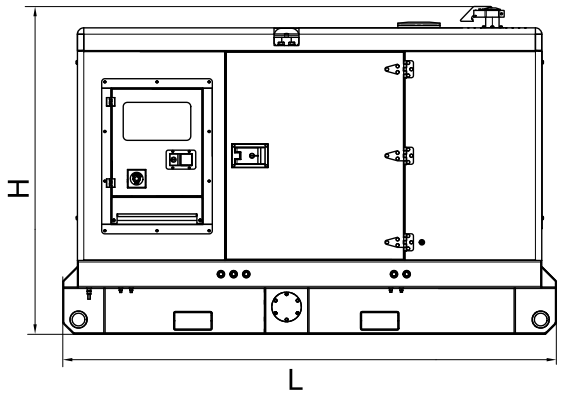
Dry weight	1245kg
Fuel tank capacity	148L
Dimensions L x W x H	2338x1115x1553mm

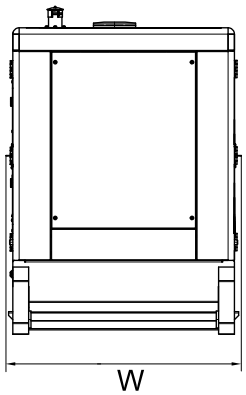




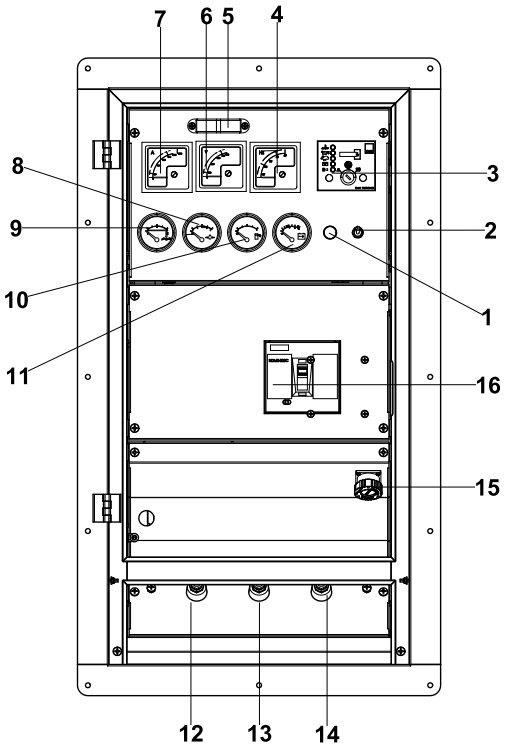
(8) Oil drain hose fitting
(7) Cable trench
(6) Emergency stop switch
(5) Air inlet
(4) Lifting lug
(3) Roping lug
(2) Coolant inlet
(1) Exhaust gas outlet

(15) Base frame
(14) Access door
(13) Fork lift channel
(12) Tie down
(11) Coolant drain hose fitting
(10) Fuel drain
(9) External fuel inlet/return hose fitting



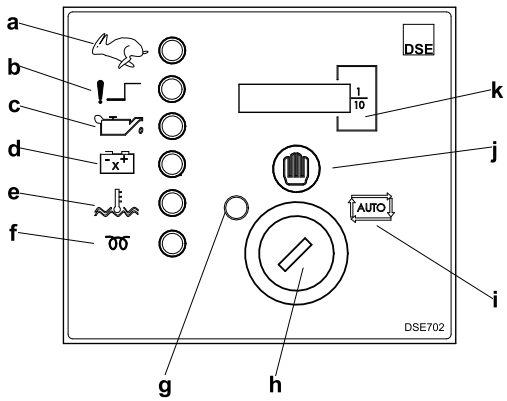


5 Control System



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	Water temperature meter
10	Fuel level 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



Control panel

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

1000144383-IT1-B3