

DGPO30K-3

50 Hz @ 1500rpm, 3-phase/5-wiring

30kVA
KUBOTA

DGPO30K-3

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 50°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.

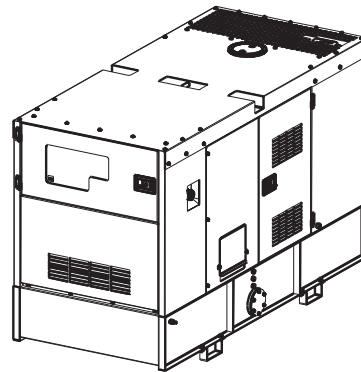
2 General Features

- Kubota engine V3300-BG
- Close coupled to LSA alternator LSA42.3VS3
- Microprocessor control module PLC-920
- SCHNEIDER main circuit breaker: 63A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: R220
- Key switch
- Emergency stop switch
- ATS(automatic transfer switch)receptacle

- Remote run connector
- 1x12V/60AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Steel base frame
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 28 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

General technical data



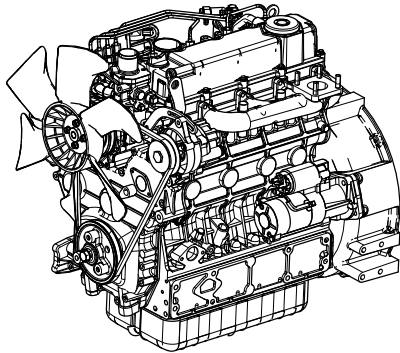
Model.....QSV30KS-AU
 Tank capacity.....165L
 Dry weight.....936kg
 Sound pressure level @ 7m 63.0dB(A)
 Dimensions L×W×H.....2030x946x1221mm
 Standby Power 33kVA/26kW
 Prime Power 30kVA/24kW

| | | | | | |
|--------------------------------|-------|-------|-------|-------|------|
| Voltage | 380V | 400V | 415V | 440V | |
| Ampere | 45.6A | 43.3A | 41.7A | 39.4A | |
| Genset Fuel Consumption | | | | | |
| Frequency/Load | 25% | 50% | 75% | 100% | 110% |
| 50Hz (L/h) | N/A | 4.0 | 5.9 | 7.7 | 8.5 |

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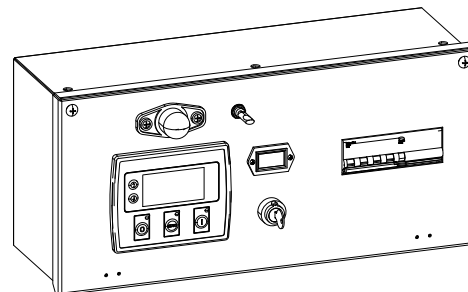
Diesel engine



| | |
|---------------------------------|-------------------------------|
| 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 | Direct injection |
| 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 |
| Prime Power | 26.3kW |
| Fuel Consumption(100%load)..... | 7.7L/h |

| | |
|---|---------------------|
| Alternator Manufacturer/Brand | Leroy Somer |
| Alternator Model | LSA42.3VS3 |
| 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..... | N/A |
| Voltage Regulation | ±1.0% |
| Total Harmonic TGH / THCat no load < 1.5 % - on load < 5% | |
| Telephone Interference..... | THF<2%;TIF<50 |

PLC-920 Control System

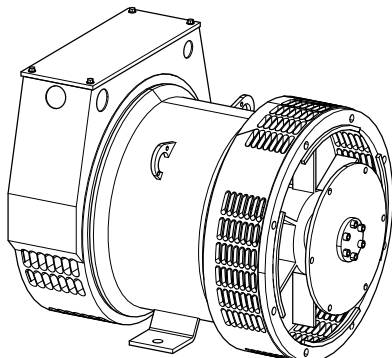


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine 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

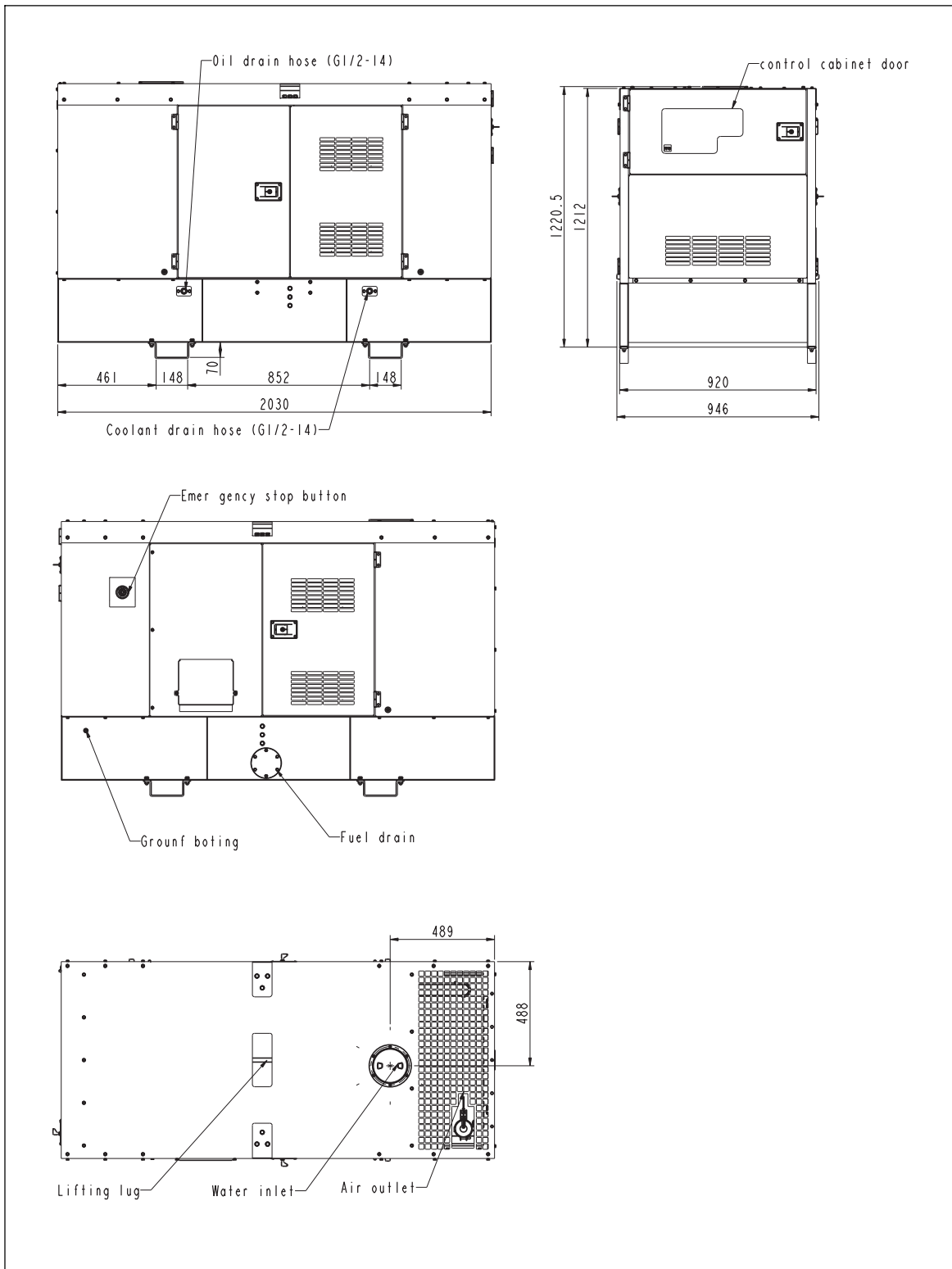
Alternator



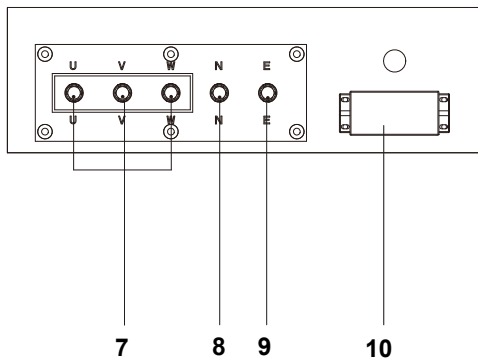
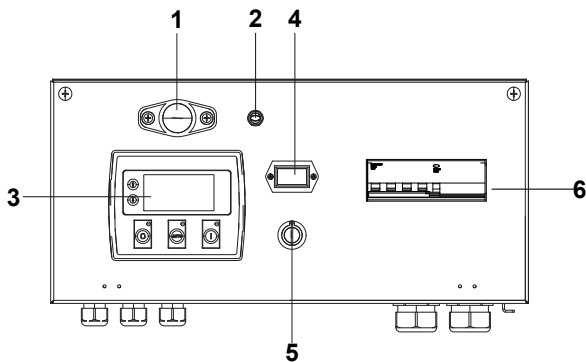
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4 Overall Dimensions

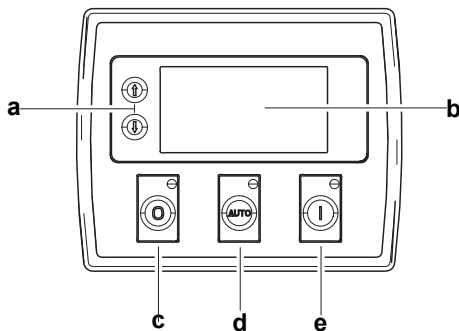


5 Control System



Control & field wiring cabinet

| Ref. | Description |
|------|--|
| 1 | Control cabinet lamp |
| 2 | Control cabinet lamp switch |
| 3 | Control module |
| 4 | Time counter |
| 5 | Key switch |
| 6 | Main circuit breaker |
| 7 | Live wire terminals |
| 8 | Neutral wire terminal |
| 9 | Ground wire terminal |
| 10 | Mains input/remote communication connector |



Control module

| Ref. | Description |
|------|---|
| a | Navigation button«» Accept (Configuration mode only) |
| b | Main status display |
| c | Stop/reset button«» Next page (Configuration mode only) |
| d | Auto start button«» Decrease value/next item (Configuration mode only) |
| e | Start button«» Increase value/next item (Configuration mode only) |