

Generator set
Sound-proof type
A37KS

SPECIFICATIONS





1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

Electrical devices have obtained the certification of:

- CSA
- UL

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 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.

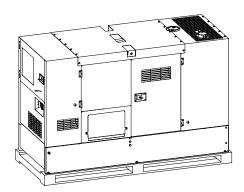
2 General Features

- S* à[œengine V2403-CR-TIE4BG
- Close coupled to Š^\[^ÂÛ[{ ^\ alternator LSA42.3S5
- Qc^||ā^} ocontrol module PLC-7420
- ABB main circuit breaker: 125A
- Rotate speed governor: ECU
- · Exhaust gas purification system with EGR and DOC
- Excitation system: Self excited, SHUNT
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V/72AH battery and charger
- · Lockable battery isolator switch
- · Power coated canopy
- 50°C radiator
- · Oil pump on the engine
- · Steel base frame
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- · Base fuel tank for 25 hours running
- · Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

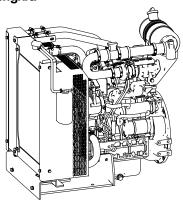
General technical data



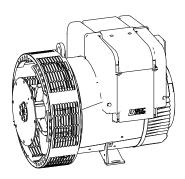
Model	A37KS
Structure type	RS
Tank capacity	210L
Dry weight	916kg
Sound pressure level @7m	66dBA
Dimensions L×W×H	2080x870x1469mm
Prime Power	38kVA/30kW
Standby Power	41kVA/33kW

	Voltage	208	3V		220V	230	V	:	240V
	Ampere	Ampere 105.		5A 99.7A		95.4A		91.4A	
Genset Fuel Consumption									
	Frequency/Load		25%	6	50%	75%	100	%	110%
	60Hz (L	/h)	N/A	١	4.3	6.4	8.5	5	9.2

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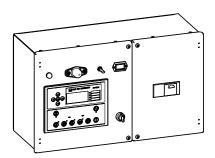


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Engine Manufacturer/Brand	Kubota
Engine Model	V2403-CR-TIE4BG
Dimensions L×W×H	842×540×728mm
Dry Weigh (approx.)	232Kg
Number of Cylinders	4
Bore	87mm
Stroke	102.4mm
Displacement	2.434L
Compression Ratio	16.0
Type of injectionHigh	pressure common rail
Intake System	Turbocharged
Intake Resistance	≤3.92kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of FuelNo.2-D S15, Ultra	a Low Sulfur Fuel Only
Type of OilClass CJ-4/CK-4 oil as	s per API classification
Oil Capacity	12.7L
Type of Coolant	Glycol mixture
Coolant Capacity	10.5L
Back Pressure	≤6.7kPa
Prime Power	39.6kW
Fuel Consumption(100%load)	8.5L/h



Alternator Manufacture	r/BrandLeroy Somer
Alternator Model	LSA42.3S5
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	2250 rpm
Air Flow	0.514m³/s(50HZ),0.617m³/s(60HZ)
Voltage Regulation	±1.0%
Total harmonic TGH / 1	ΓHCat no load < 1.5 % - on load < 5%
Telephone Interference	THF<2%;TIF<50

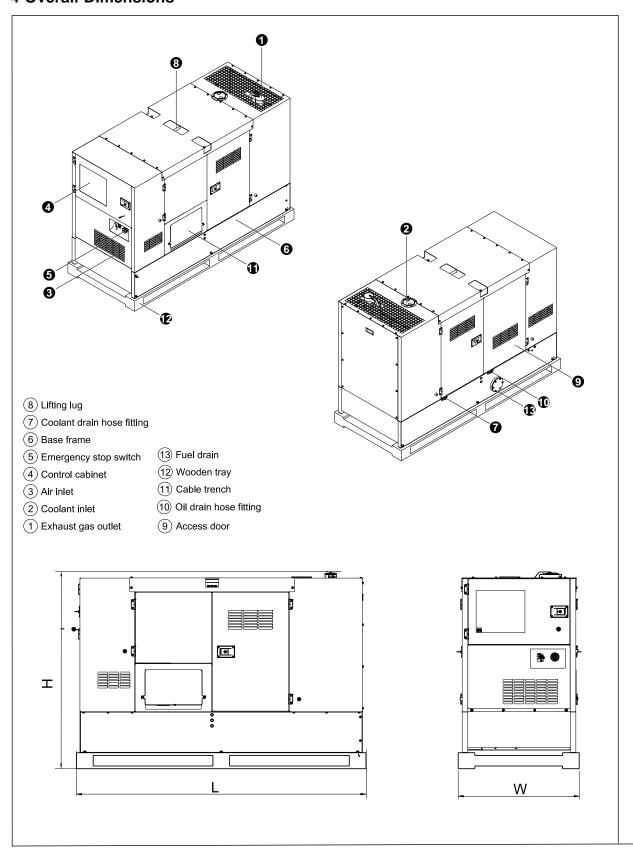
PLC-7420 Control System



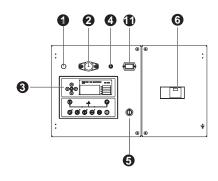
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

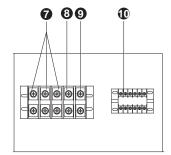
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

4 Overall Dimensions

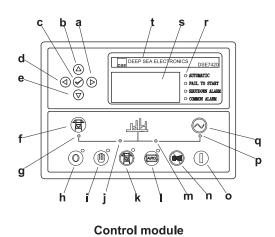


5 Control System





Control & field wiring cabinet



Ref.	Description
1	Charge indicator
2	Control cabinet lamp
3	Control module
4	Control cabinet lamp switch
5	Key switch
6	Main circuit breaker
7	Live wire terminal
8	Neutral wire terminal
9	Ground wire terminal
10	Remote control/Mains input
11	Time counter

a Button (next page) b Button (increase value / previous item) c Button (accept) d Button (previous page)	
c Button (accept)	
1 /	
d Button (previous page)	
1 0 /	
e Button (decrease value / next item)	
f Button (transfer the load to the mains su when in Manual mode only)	pply,
9 Mains supply available LED	
h Stop / Reset button	
i Manual button (Manual control mode)	
j Mains supply on load LED	
k Test button (Test mode)	
I Auto button (Auto mode)	
m Genset on load LED	
n Mute/Lamp test button	
o Start button (Manual)	
p Genset available LED	
Button (transfer the load to the genset, when in Manual mode only)	
r Alarm LED (4 alarm items)	
s LCD display	
t Control module name	

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