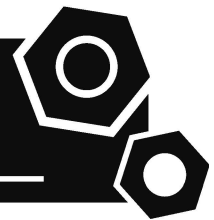


Generator set
Sound-proof type
E41KS

SPECIFICATIONS



T5F series
E41KS, Tier 5 Final
60 Hz @ 1800rpm.3-phase/5-wiring



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (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.

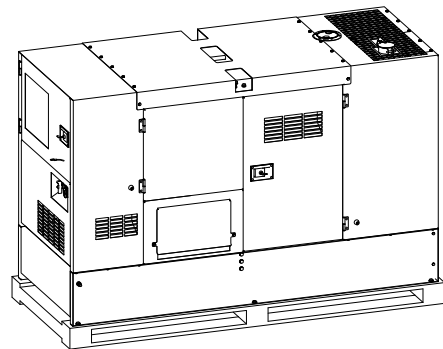
2 General Features

- Engine V3800-CR-TE5BG2
- Close coupled to alternator LSA42.3M7
- Control module PLC-7420
- ABB main circuit breaker: 63A
- 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

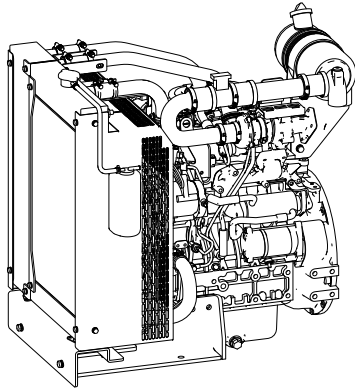
General technical data



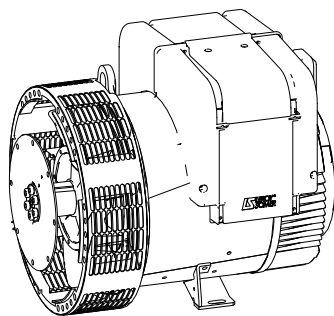
Model..... E41KS
 Structure type RS
 Tank capacity..... 180L
 Dry weight..... 1404kg
 Sound pressure level @7m66dBA
 Dimensions L×W×H.....2508x1081x1709mm
 Prime Power 41kVA/32.8kW
 Standby Power 45kVA/36.1kW

Voltage	208V	220V	230V	240V	
Ampere	124.9A	118.1A	112.3A	108.3A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	5.8	8.2	10.7	12.1

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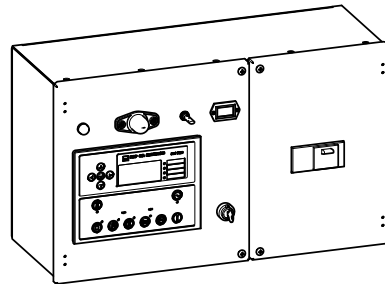


Engine Manufacturer/Brand.....	Kubota
Engine Model.....	V3800-CR-TE5BG2
Dimensions L×W×H.....	815×552×791mm
Dry Weigh (approx.).....	290Kg
Number of Cylinders.....	4
Bore.....	100mm
Stroke.....	120mm
Displacement.....	3.7L
Compression Ratio.....	19.0
Type of injection.....	Center Direct Injection
Intake System.....	Turbocharged
Intake Resistance.....	≤ 1.96kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12V
Type of Fuel.....	No.2-D S15, Ultra Low Sulfur Fuel Only
Type of Oil.....	Class CJ-4/CK-4 oil as per API classification
Oil Capacity.....	13.2L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	19L
Back Pressure.....	≤7.1kPa
Prime Power.....	38kW
Fuel Consumption(100%load).....	10.7L/h



Alternator Manufacturer/Brand.....	Leroy Somer
Alternator Model.....	LSA42.3M7
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.....	0.10m³/s(50HZ),0.13m³/s(60HZ)
Voltage Regulation.....	±0.5%
Total harmonic TGH / THCat no load < 3 % - on load < 2%	
Telephone Interference.....	THF<2%;TIF<50

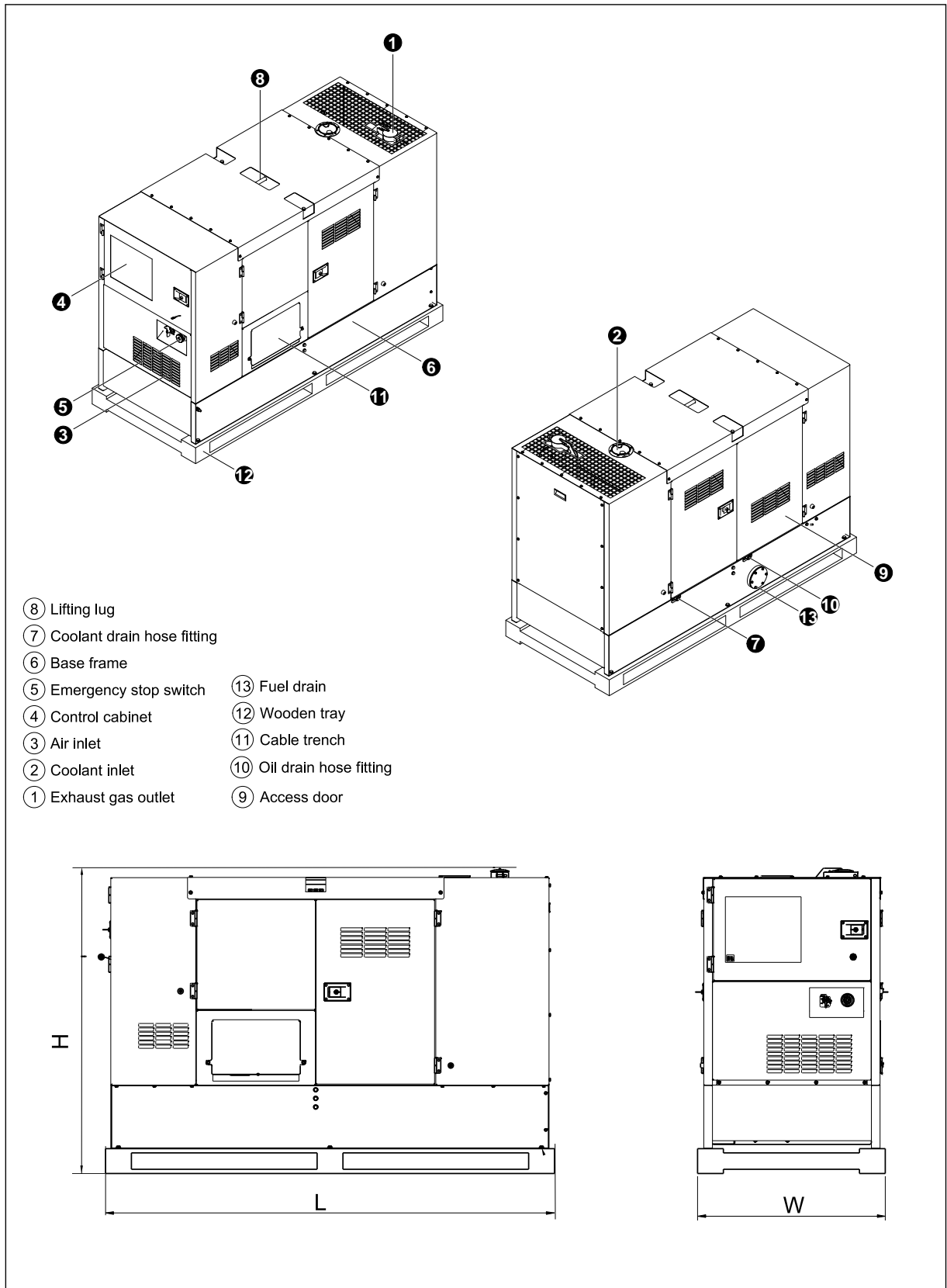
PLC-7420 Control System



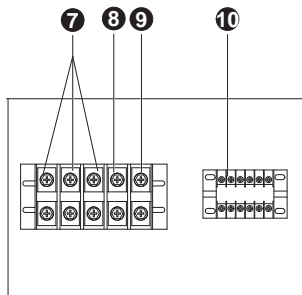
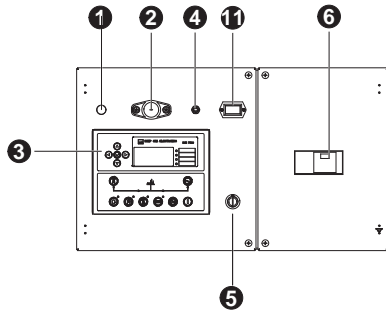
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

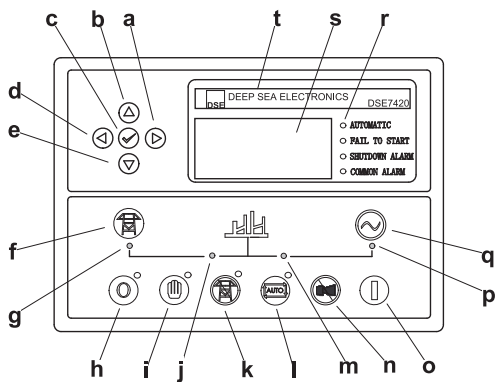
4 Overall Dimensions



5 Control System



Control & field wiring cabinet



Control module

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)
e	Button (decrease value / next item)
f	Button (transfer the load to the mains supply, when in Manual mode only)
g	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)
l	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
o	Start button (Manual)
p	Genset available LED
q	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

1000035543-A1-E

09.2023

<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,
contact Power Link or your local distributors please.*