

Generator set
Sound-proof type
A17.5KS

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.

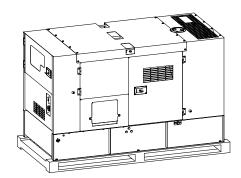
2 General Features

- Sˇà[œengine VFÍ €Í ËÒI ÓÕF
- Close coupled to Š^\[^ÂÛ[{ ^\ alternator ŠÙŒ €T Í
- Qc\|a*\} o\fontrol module PLC-7420
- ABB main circuit breaker: Î HA
- Rotate speed governor: T^&@a) a&atA*[ç^!}[;
- · Excitation system: Self excited, SHUNT
- Key switch

- · Emergency stop switch
- · Remote control / mains input receptacle
- 1x12V/70AH 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 27 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

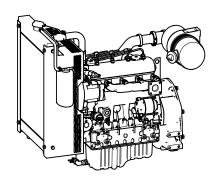
General technical data



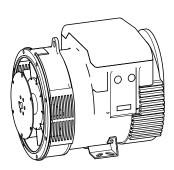
Model	A17.5KS
Structure type	PT
Tank capacity	110L
Dry weight	704kg
Sound pressure level @7m	64dBA
Dimensions L×W×H	1800x865x1278mm
Prime Power	18kVA/14kW
Standby Power	19kVA/15kW

Voltage	208V		220V		230V		240V	
Ampere	50.0A		47.2A		45.2A		43.3A	
Genset Fuel Consumption								
Frequency/Load		25%	50%		75%	100%	%	110%
60Hz (L/h)		N/A	2.1		3.0	4.1		4.5

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Engine Manufacturer/Brand	Kubota
Engine Model	V1505-E4BG1
Dimensions L×W×H	637×396×607mm
Dry Weigh (approx.)	110Kg
Number of Cylinders	4
Bore	78mm
Stroke	78.4mm
Displacement	1.498L
Compression Ratio	24.0
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 Fuel No.2-D S500 or S	15 - Low sulfur fuel
Type of OilClass CF oil as po	er API classification
Oil Capacity	6.7L
Type of Coolant	Glycol mixture
Coolant Capacity	2.0L
Back Pressure	≤7.07kPa
Standby Power	15.1kW
Prime Power	14.5kW
Fuel Consumption(100%load)	4.1L/h



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA40M5
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 / THCat no loa	ad < 1.5 % - on load < 5%
Telephone Interference	THF<2%;TIF<50

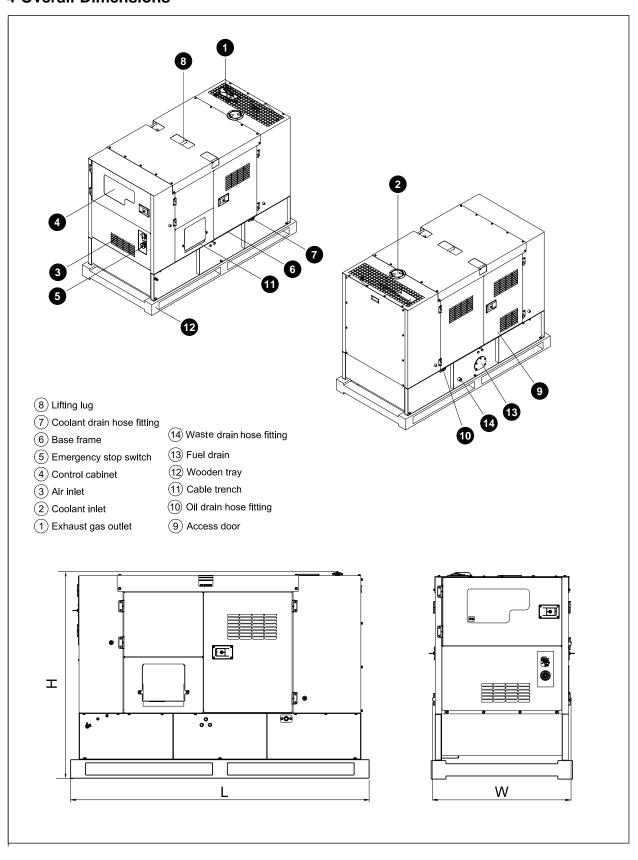
PLC-7420 Control System



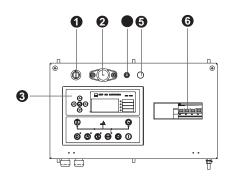
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

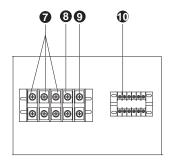
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, 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

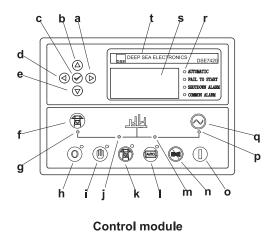


5 Control System





Control & field wiring cabinet



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

а	Button (next page)
b	Button (increase value / previous item)
С	Button (accept)
d	Button (previous page)
е	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)
ı	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
0	Start button (Manual)
р	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

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