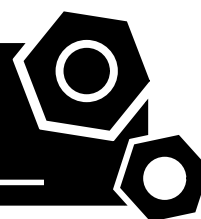


Generator set
Sound-proof type
WPS175D6S-EPA

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- ISO8528
- GB/T2820
- YD/502-2007
- JB/T20136-2006

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.

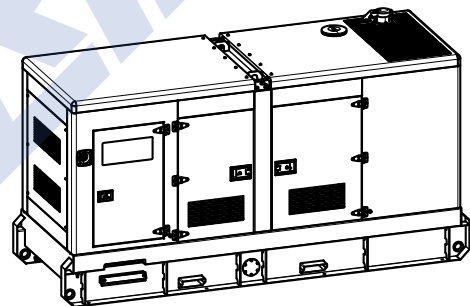
2 General Features

- Perkins engine 1106D-E70TAG4
- Close coupled to a Stamford alternator UCI274G
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 630A
- Rotate speed governor: Electronic fuel injection governor
- Excitation system: Self excited , SHUNT
- A.V.R model: AS440
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Power coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

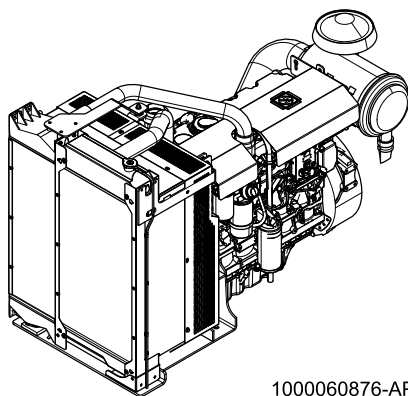


1000022663-AP1-A7

Model..... WPS175D6S-EPA
 Structure type R
 Tank capacity.....420L
 Dry weight.....2674kg
 Sound pressure level @7m N/A
 Sound power level acc. 2000/14/EC N/A
 Dimensions L×W×H..... 3468x1222x1843mm
 Standby Power 200kVA/160kW

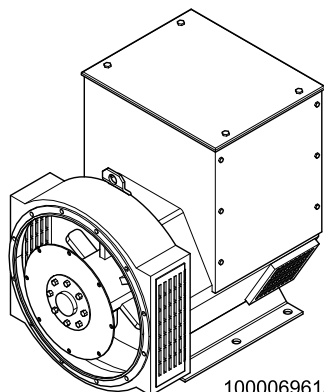
Voltage	208V	220V	230V	240V	
Ampere	555A	525A	502A	481A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	13.3	24.7	35.2	45.6	49.4

Dck Yf' GnghYa



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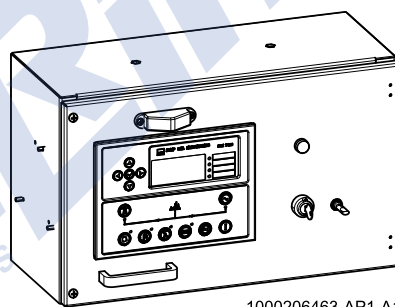
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1106D-E70TAG4
Dimensions L×W×H.....	1763×788×1140mm
Dry Weigh (approx.)	788kg
Number of Cylinders.....	6
Bore.....	105mm
Stroke	127mm
Displacement.....	6.6L
Compression Ratio.....	16.2
Type of Injection	Direct injection
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	≤8kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	BS2869, 1998 Class A2 or BS EN590
Type of Oil	API-CH4/C14
Oil Capacity	16.5L
Type of Coolant	Glycol mixture
Coolant Capacity	21L
Back Pressure	≤15kPa
Standby Power	204.3kW
Prime Power	185.7kW
Fuel Consumption(100%load).....	219.3g/kWh



1000069615-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	UCI274G
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.....	0.514m³/s(50Hz), 0.617m³/s(60Hz)
Voltage Regulation	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%; TIF<50

PLC-7420 Control System



1000206463-AP1-A1

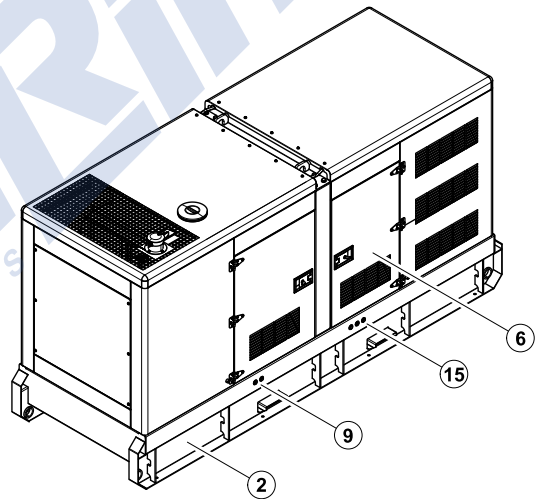
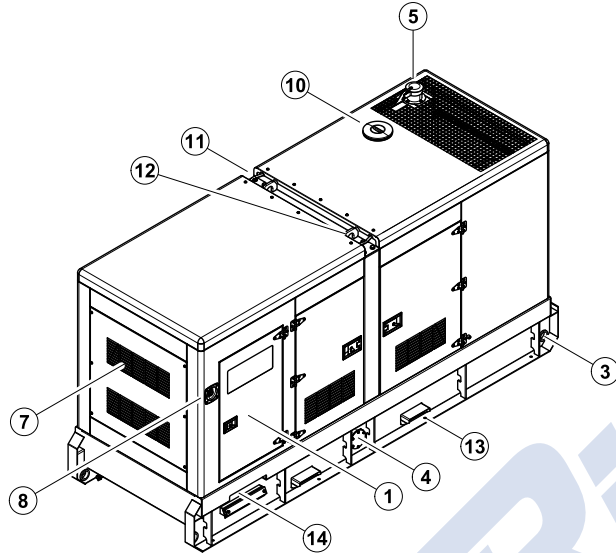
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

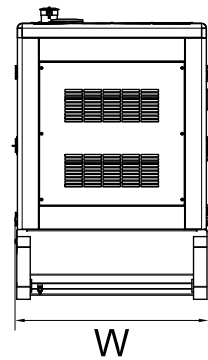
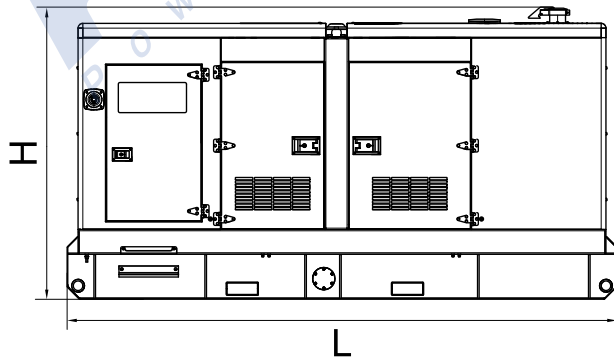
4 Overall Dimensions

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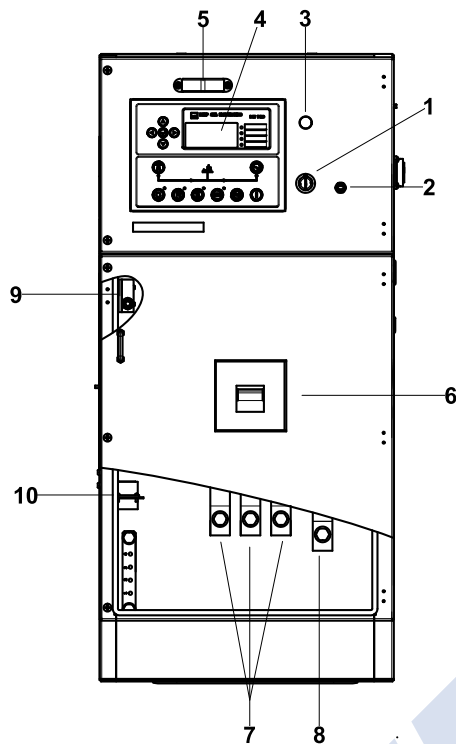
Dry weight	2674kg
Fuel tank capacity	420L
Dimensions L x W x H	3468x1222x1843mm



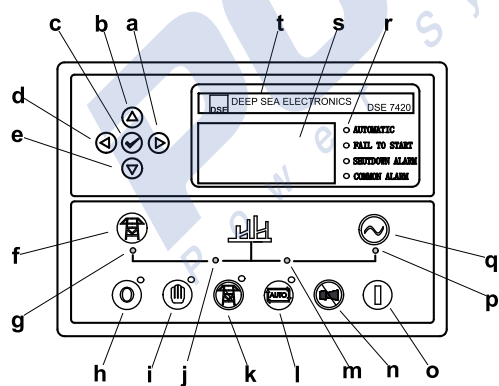
- ⑧ Emergency stop switch
- ⑦ Air inlet
- ⑥ Access door
- ⑤ Exhaust gas outlet
- ④ Fuel drain
- ③ Tie down
- ② Base frame
- ① Control cabinet
- ⑮ External fuel inlet/return hose fitting
- ⑭ Cable trench
- ⑬ Fork lift channel
- ⑫ Lifting lug
- ⑪ Roping lug
- ⑩ Coolant inlet
- ⑨ Coolant/Oil drain hose fitting



5 Control System



Control & Field wiring cabinet



Control module

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

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

1000022663-D2-E
01.2019