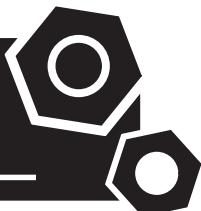


Generator set
Sound-proof type
WPS82D6S-EPA

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.

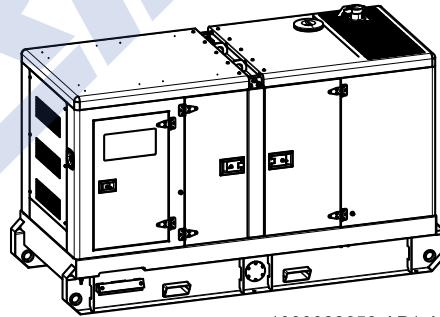
2 General Features

- Perkins engine 1104D-E44TAG1
- Close coupled to a Stamford alternator UCI224G
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 400A
- Rotate speed governor: Electrical 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 forkslots
- 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

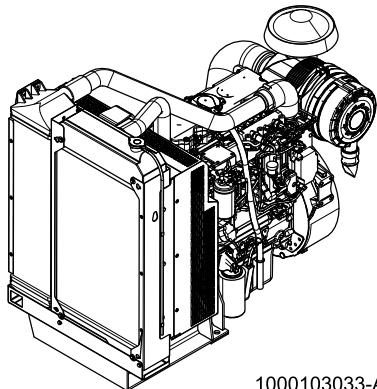


1000022658-AP1-A7

Model.....	WPS82D6S-EPA
Structure type	R
Tank capacity.....	240L
Dry weight.....	1800kg
Sound pressure level @ 7m	N/A
Sound power level acc. 2000/14/EC	N/A
Dimensions L×W×H.....	2788x1165x1680mm
Standby Power	102kVA/82kW

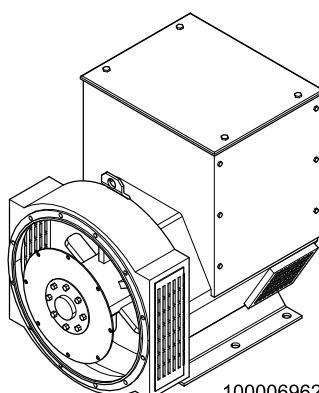
Voltage	208V	220V	230V	240V	
Ampere	283A	267A	256A	245A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	13.5	18.7	24.2	26.3

Dck Yf GnghYa



1000103033-AP1-A1

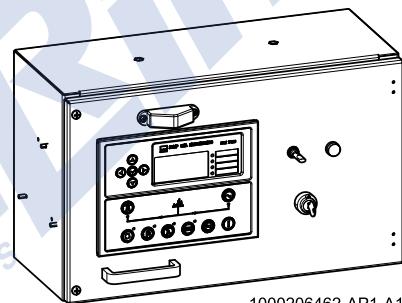
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1104D-E44TAG1
Dimensions L×W×H.....	1358×749×1086mm
Dry Weigh (approx.)	465kg
Number of Cylinders.....	4
Bore	105mm
Stroke.....	127mm
Displacement.....	4.4L
Compression Ratio.....	16.2
Type of Injection	Direct
Intake System.....	Turbocharged,air-to-air charge cooled
Intake Resistance.....	≤8.0kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	EPA2D 89.330-96
Type of Oil	API-CC/SE or CCMC-D1
Oil Capacity	8.0L
Type of Coolant	Glycol mixture
Coolant Capacity	17L
Back Pressure	≤15kPa
Standby Power	96kW
Prime Power	88kW
Fuel Consumption(100%load).....	24.2L/h



1000069620-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	UCI224G
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 load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System



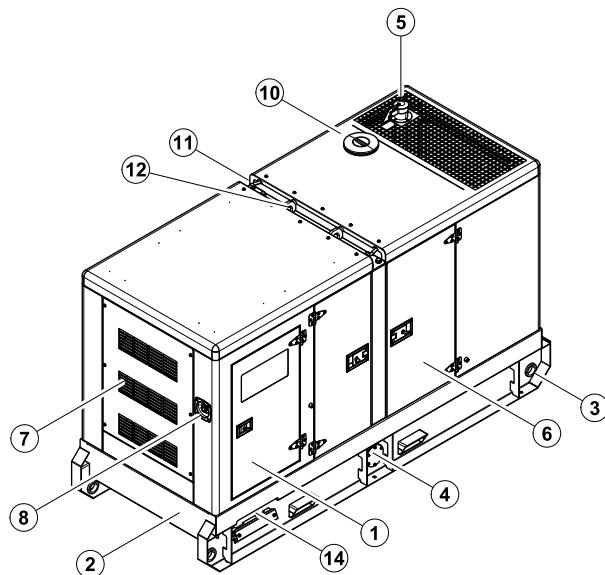
1000206462-AP1-A1

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.

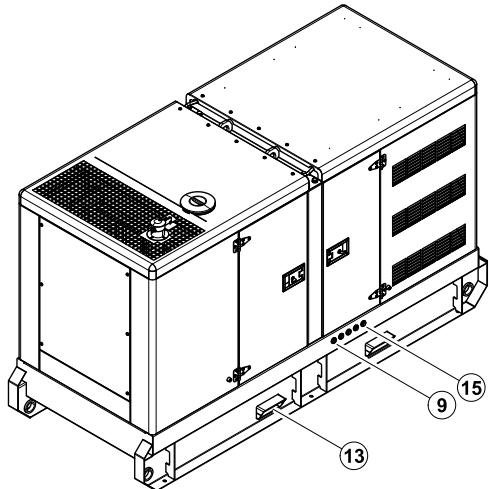
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual,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

1000022658-DR1-A7

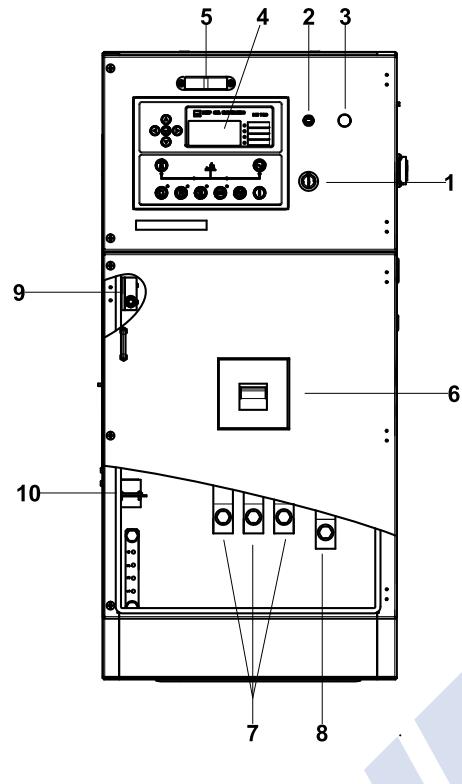


Dry weight	1800kg
Fuel tank capacity	240L
Dimensions L x W x H	2788x1165x1680mm

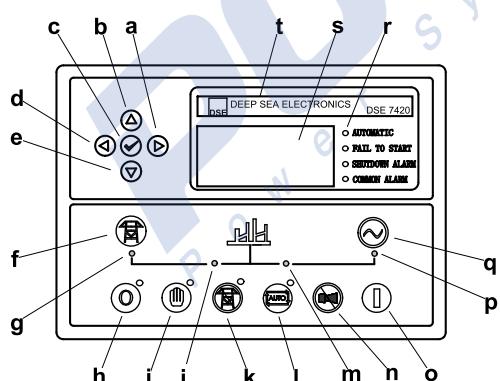


- | | |
|-------------------------|--|
| ⑧ Emergency stop switch | ⑯ External fuel inlet/return
hose fitting |
| ⑦ Air inlet | ⑯ Cable trench |
| ⑥ Access door | ⑯ Fork lift channel |
| ⑤ Exhaust gas outlet | ⑯ Lifting lug |
| ④ Fuel drain | ⑯ Roping lug |
| ③ Tie down | ⑯ Coolant inlet |
| ② Base frame | ⑯ Coolant/Oil drain hose fitting |
| ① Control cabinet | |

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

1000022656-E2-E
01.2019

<http://www.powerlinkworld.com>

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