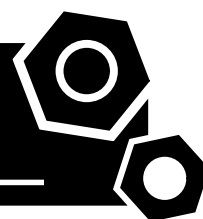


Generator set
Sound-proof type
WPS66D6S-EPA

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.

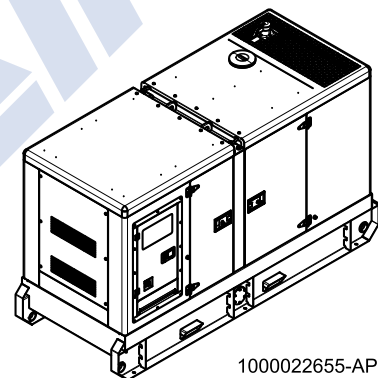
2 General Features

- Perkins engine 1104D-E44TG1
- Close coupled to a Stamford alternator UCI224F
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 250A
- 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 10 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data



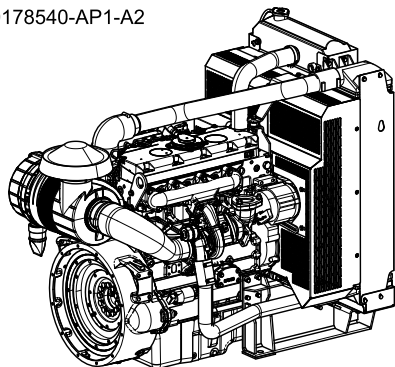
1000022655-AP1-C3

Model..... WPS66D6S-EPA
 Structure type R
 Tank capacity..... 180L
 Dry weight..... 1714kg
 Sound pressure level @7m N/A
 Sound power level acc. 2000/14/EC N/A
 Dimensions L×W×H..... 2788x1130x1700mm
 Standby Power 83kVA/66kW

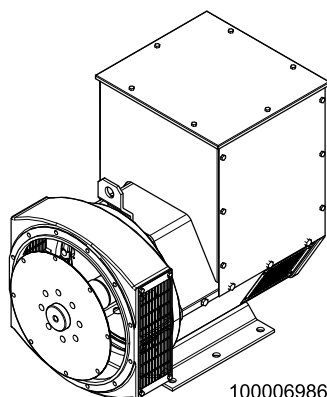
Voltage	208V	220V	230V	240V	
Ampere	235A	218A	209A	200A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	5.7	11.4	16.2	18.1	19.0

Power System

1000178540-AP1-A2



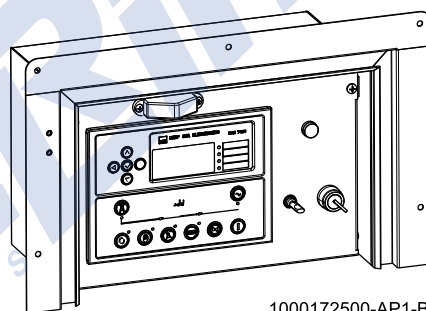
Engine Manufacturer/Brand	Perkins
Engine Model	1104D-E44TG1
Dimensions L×W×H	1281×708×940mm
Dry Weigh (approx.)	465kg
Number of Cylinders	4
Bore	105mm
Stroke	127mm
Displacement	4.41L
Compression Ratio	18.2
Type of injection	Direct injection
Intake System	Turbocharged
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel	EPA2D 89.330-96
Type of Oil	API-CH4/C14
Oil Capacity	8.4L
Type of Coolant	Glycol mixture
Coolant Capacity	13.2L
Back Pressure	N/A
Standby Power	73kW
Prime Power	66kW
Fuel Consumption(100%load)	19L/h



1000069865-AP1-A4

Alternator Manufacturer/Brand	Stamford
Alternator Model	UCI224F
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	0.216m³/s(50HZ),0.281m³/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

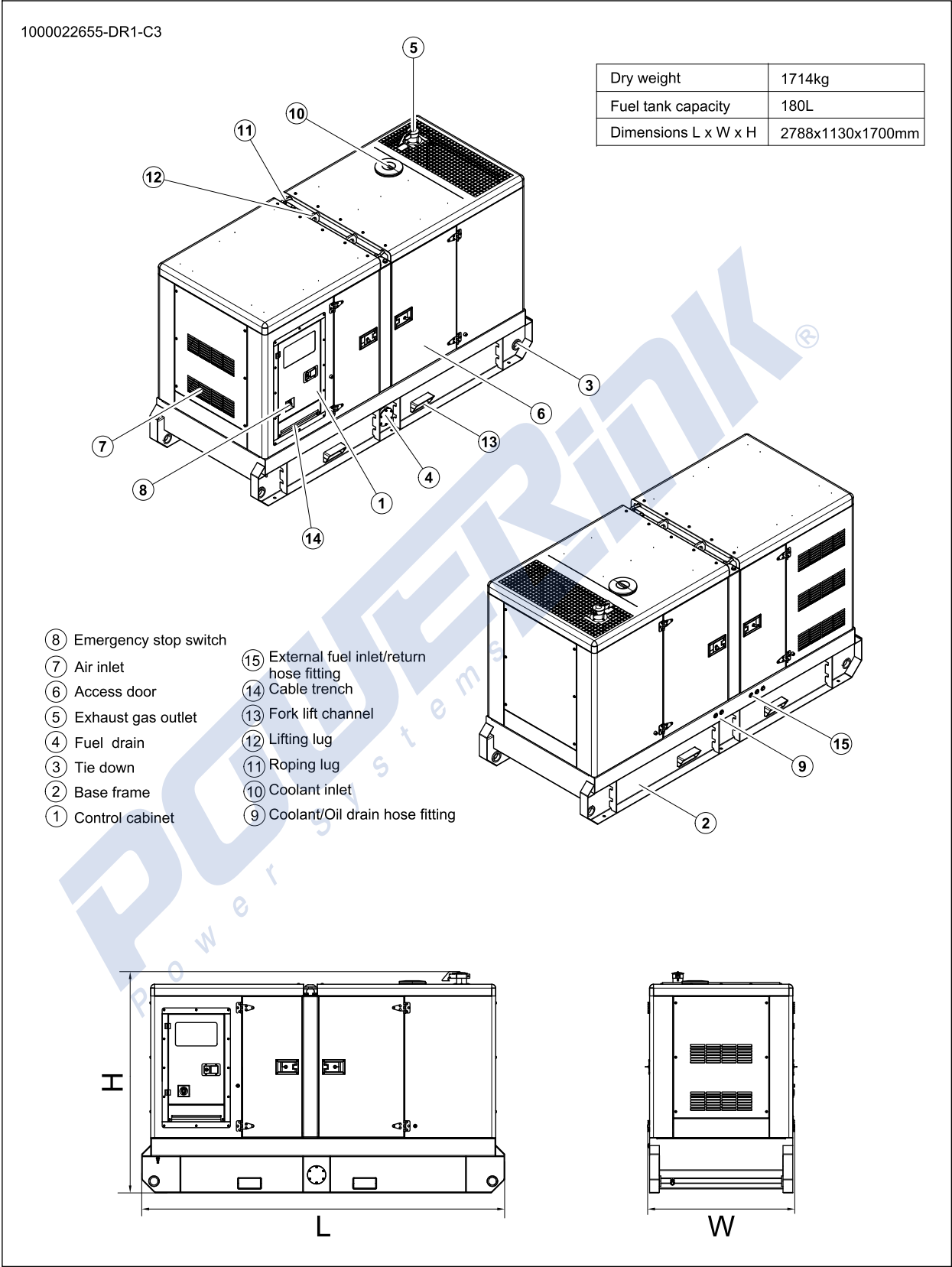


1000172500-AP1-B5

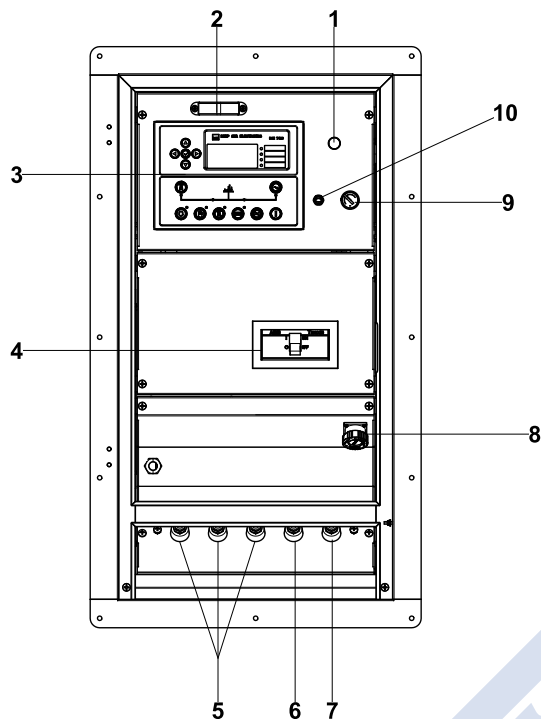
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

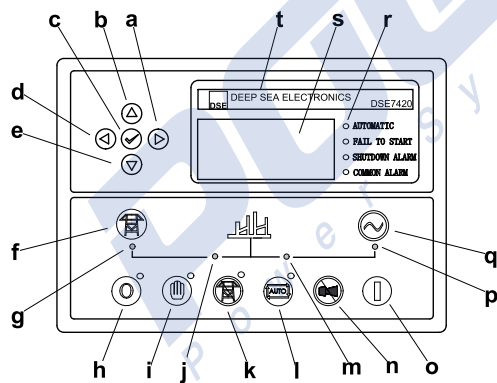
4 Overall Dimensions



5 Control System



Control & field wiring cabinet



Control module

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

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

1000022655-C3-E
03.2014



<http://www.powerlinkworld.com>

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