



Perkins 385kVA

Generator set

Sound-proof type

DPX-20016

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

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 2206C-E13TAG2
- Close coupled to a Leroy Somer alternator LSA46.3L11
- Microprocessor control module PLC-7420
- Main circuit breaker: 630A
- Rotate speed governor: Electronic fuel injection governor
- Excitation System: Self excited,SHUNT
- A.V.R.Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/120AH sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder 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 11 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

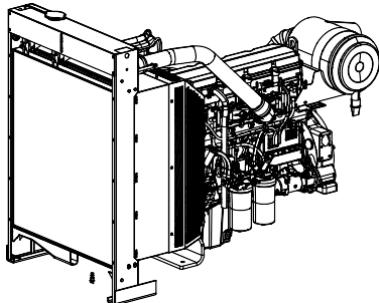


General technical data

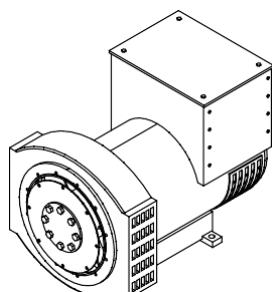
Model.....	DPX-20016
Structure type	R
Tank capacity.....	800L
Dry weight.....	4489kg
Sound pressure level @7m.....	80.1dB(A)
Sound power level acc. 2000/14/EC	108dB(A)
Dimensions LxWxH.....	4242x1423x2512mm
Standby Power.....	385kVA/308kW
Prime Power.....	350kVA/280kW

Voltage	380V	400V	415V	440V	
Ampere	532A	505A	487A	459A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	38.9	56	72.2	82.6

Power System

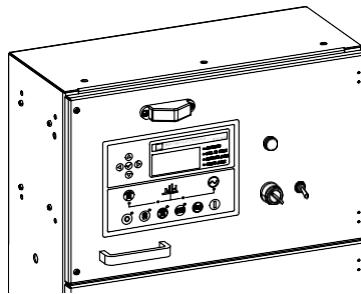


Engine Manufacturer/Brand	Perkins
Engine Model.....	2206C-E13TAG2
Dimensions LxWxH.....	2410x1120x1725mm
Dry Weight (approx.).....	1478Kg
Number of Cylinders	6
Bore	130mm
Stroke	157mm
Displacement.....	12.5L
Compression Ratio.....	16.3
Type of injection	Direct injection
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	N/A
Cooling System	Water cooled
Fan.....	Pusher
Battery Voltage.....	V
Type of Fuel	BSEN590 or ASTM D975 Class 1D and 2D.
Type of Oil.....	15W40 to API CI4.
Oil Capacity.....	40L
Type of Coolant	Glycol mixture
Coolant Capacity	51.4L
Heat Rejected To Exhaust System	251.8kW(14101BTU/min)
Heat Rejected To Water&Oil	118.4kW(6630BTU/min)
Back Pressure	N/A
Standby Power	320kW
Prime Power	280kW
Fuel Consumption(100%load)	75L/h



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA46.3L11
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class.....	H
Winding Pitch	2/3
Terminals	12
Drip Proof.....	P23
Altitude	≤1000m
Overspeed	2250rpm
Air Flow.....	0.8m³/s(50HZ),0.99m³/s(60HZ)
Voltage Regulation.....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference	THF<2%;TIF<50

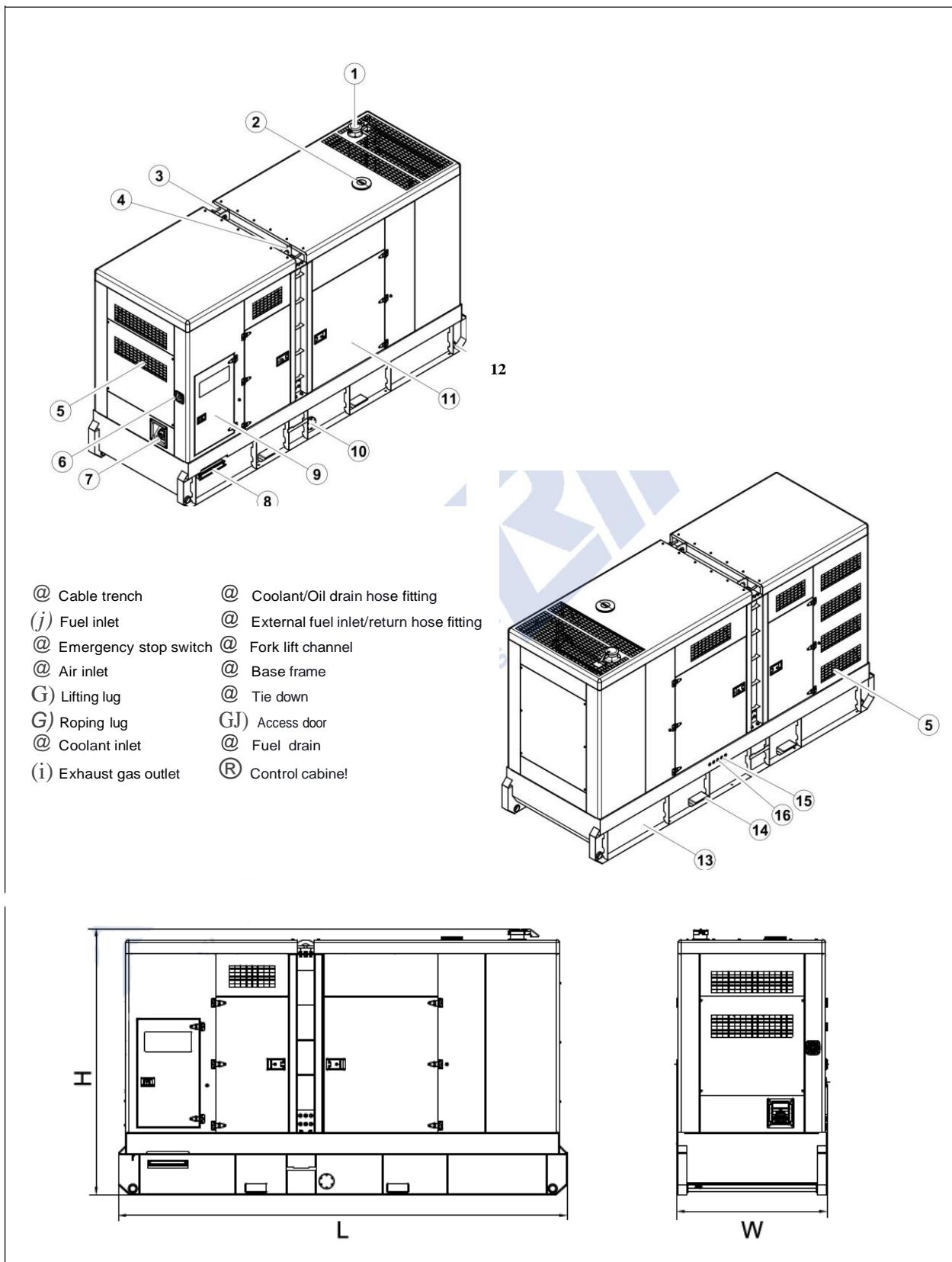
PLC-7420 Control System



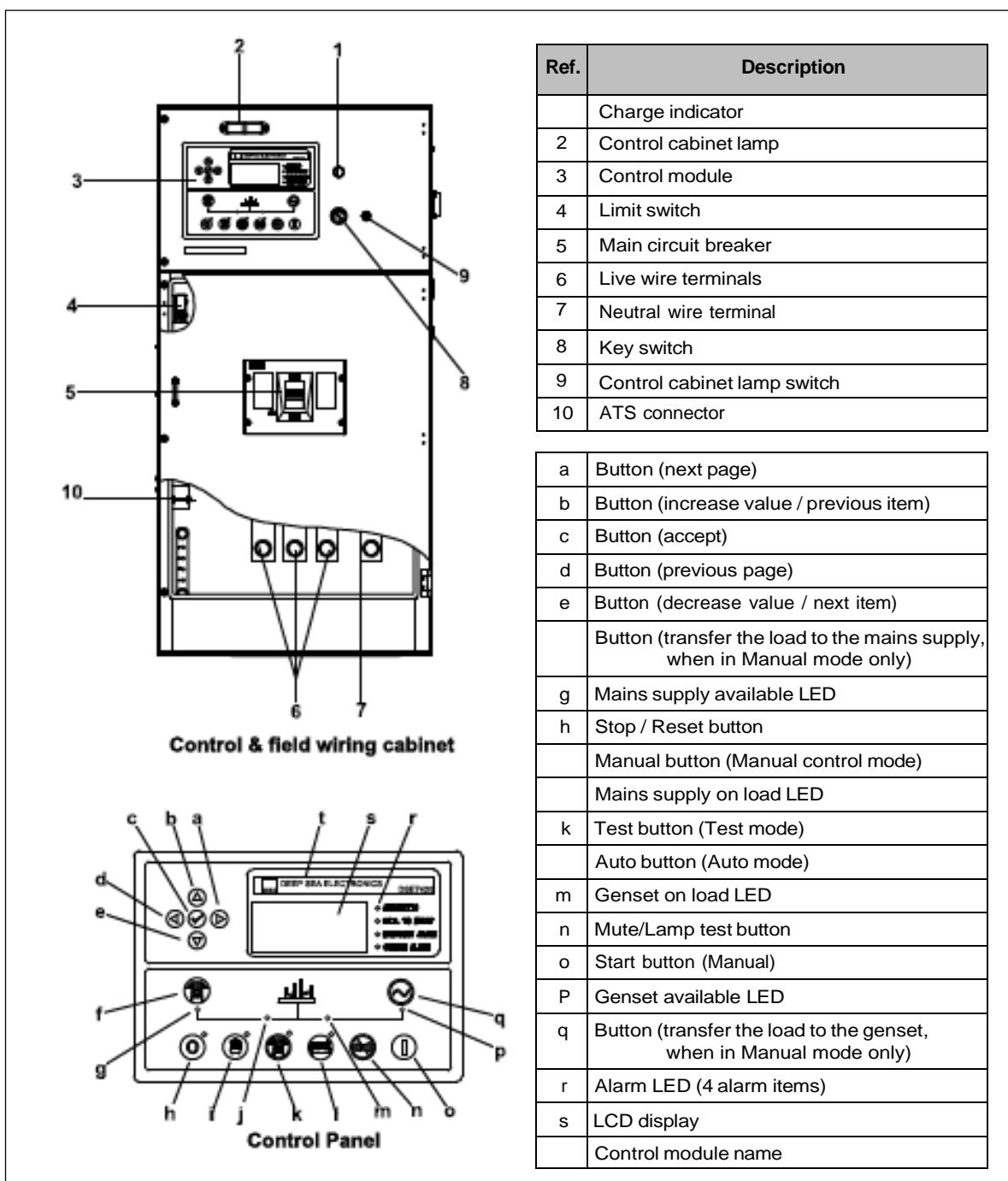
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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



Specification may change without prior notice.