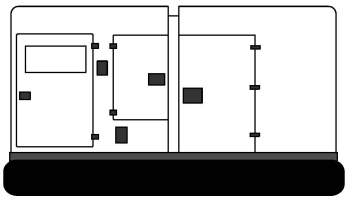
POWERLINK
Power Systems



Generator set
Sound-proof type
T375X-AU

SPECIFICATIONS

www.powerlinkworld.com

T3 series
T375X-AU
50 Hz @ 1500rpm,3-phase/4-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25℃ to 50℃.The coolant heater is needed when the temperature is below 5℃
- 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

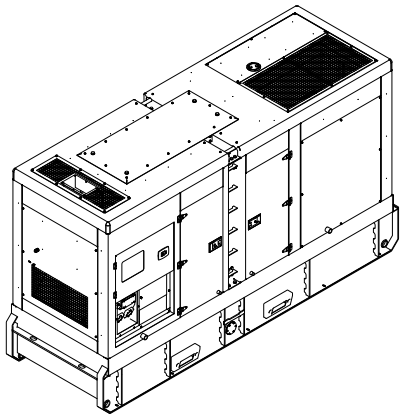
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Powerlink engine QSE12-G3
- Close coupled to LSA alternator LSA47.2S4
- Microprocessor control module XC762
- ABB main circuit breaker: 630A, 4P
- Speed governor: ECU
- Excitation System: Self excited
- A.V.R.Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Convenience receptacles: 3P and 1P
- Mini circuit breakers with leakage protector
- 2x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50℃ 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 12 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

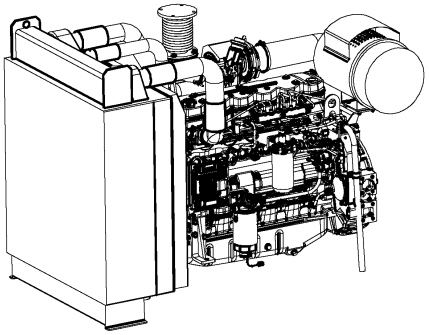
General technical data



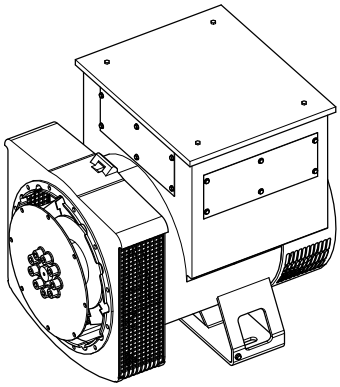
Model..... T375X-AU
Structure type ..... R
Tank capacity.....970L
Dry weight.....5836kg
Noise level @7m, 75%load 72.1dBA
Emissions compliance .....STAGE III A
Dimensions L×W×H.....4580x1493x2447mm
Standby Power 413kVA/330kW
Prime Power..... 375kVA/300kW
Voltage/Ampere 415V/522A

Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	40.2	58.5	80.0	89.3

Power System

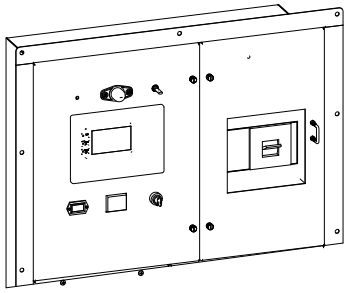


Engine Manufacturer/Brand.....Powerlink
Engine Model..... QSE12-G3
Dimensions L×W×H.....1787×918×1294mm
Dry Weigh (approx.) 1165kg
Number of Cylinders.....6
Bore 128mm
Stroke 153mm
Displacement.....11.8L
Compression Ratio 17
Type of Iinjection..... High pressure common rail
Intake System..... Turbocharged
Intake Resistance .....≦8kPa
Cooling System .....Water cooled
Fan ..... Pusher
Battery Voltage 24V
Type of Fuel....RF75-T-96 / DIN EN590 / BS2869 class A2
Type of Oil API-CG4/ CH4
Oil Capacity 41.0L
Type of Coolant .....Glycol mixture
Coolant Capacity 23.2L
Back Pressure .....≦10kPa
Standby Power 380kW
Prime Power 340kW
Fuel Consumption(100%load).....80.0L/h



Alternator Manufacturer/Brand ..... Leroy Somer
Alternator Model LSA47.2S4
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..... 0.216m³/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

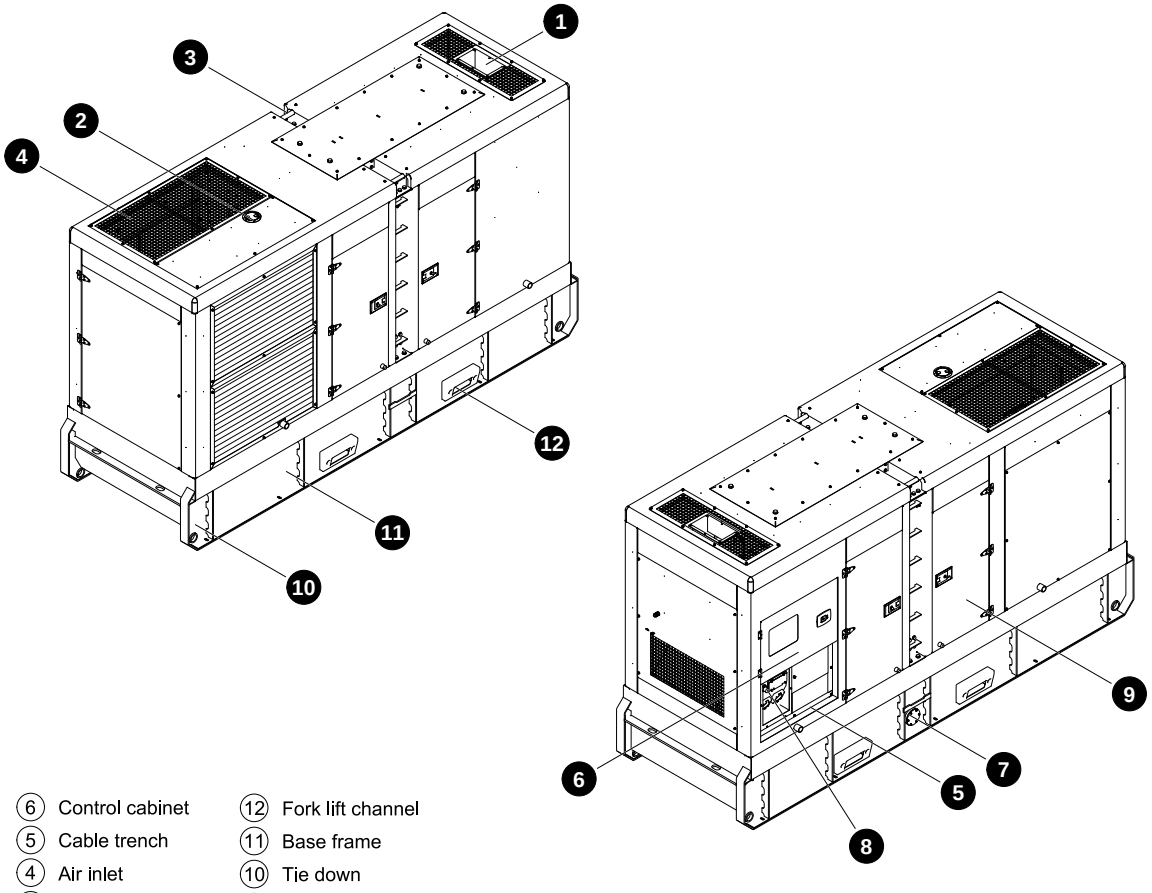
XC762 Control System



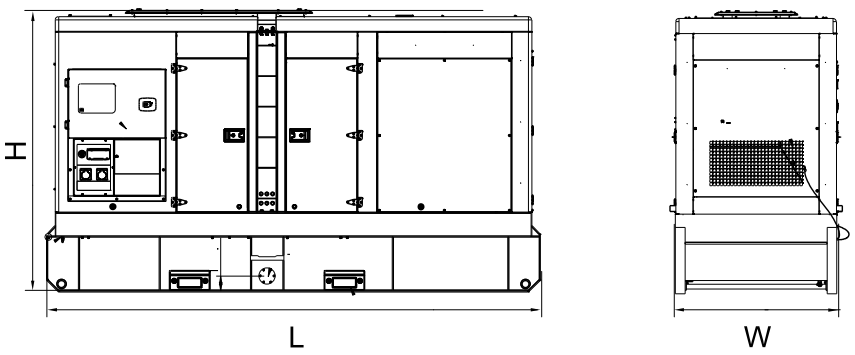
XC762 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

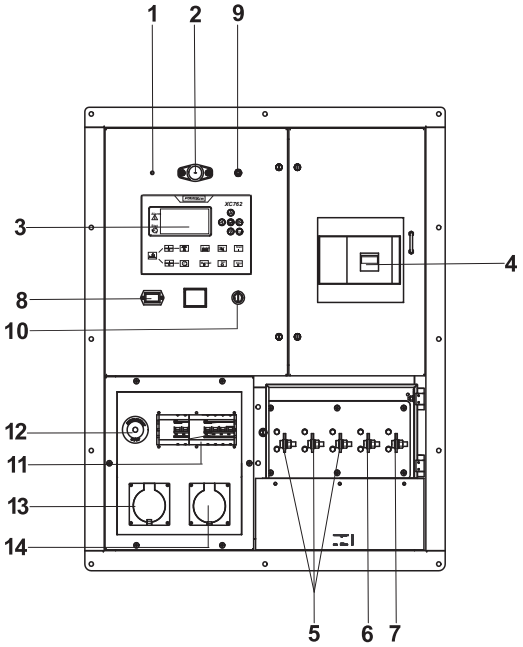
4 Overall Dimensions



6	Control cabinet	12	Fork lift channel
5	Cable trench	11	Base frame
4	Air inlet	10	Tie down
3	Lifting lug	9	Access door
2	Coolant inlet	8	Emergency stop switch
1	Exhaust gas outlet	7	Fuel drain

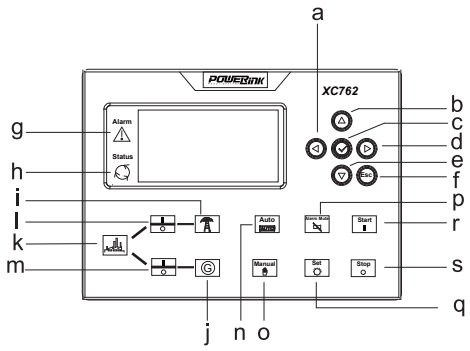


5 Control System



Control & field wiring cabinet

Ref.	Description
1	Charge indicator
2	Control cabinet lamp
3	Control module
4	Limit switch
5	Main circuit breaker
6	Live wire terminals
7	Neutral wire terminal
8	Time counter
9	Control cabinet lamp switch
10	Key switch
11	2X Mini circuit breakers with leakage protection
12	Emergency stop switch
13	Three-phase convenience receptacle
14	Single-phase convenience receptacle



Control module

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 (ESC)
g	Indicator (alarm)
h	Indicator (running)
i	Indicator (mains available)
j	Indicator (genset available)
k	Indicator (mains / genset ON)
l	Button (breaker ON / OFF)
m	Button (breaker ON / OFF)
n	Button (Auto mode)
o	Button (Manual mode)
p	Button (reset alarm)
q	Button (set parameters)
r	Button (start)
s	Button (stop)

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