QSV900CS

DIESEL GENSET SPECIFICATION

900kVA (PRP) / 990kVA (ESP)

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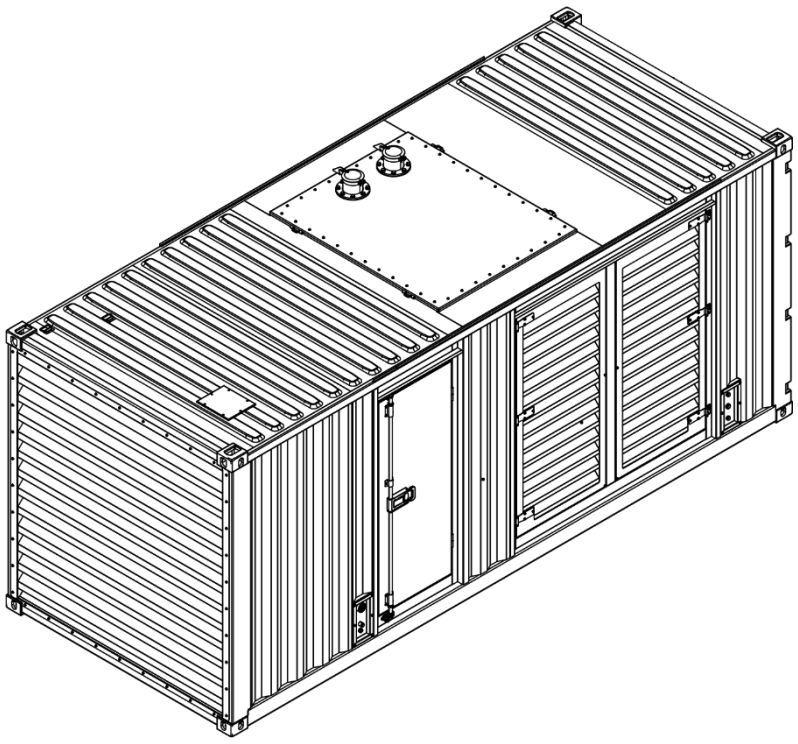

Diesel Genset Specification

QSV900CS

General technical data

Model	QSV900CS	Rated voltage V	Current A
Structure	PT	380	1367.4
Prime power (PRP)： kVA / kW	900 / 720	400	1299.1
Standby power (ESP)： kVA / kW	990 / 792	415	1252.1
Frequency: Hz	50		
Rotate speed: RPM	1500		
Phase: P	3		
Power factor: cosφ	0.8	Load	Fuel consumption L/h
Protection class	IP54	25%	46.5
Noise level: dB@7m	79.3	50%	93.0
Tank capacity: L	1450	75%	139.6
Dimensions: mm	6058×2438×2591	100%	181.4
Dry weight: kg	12500	110%	204.2

Main Features

Advantage

- Low fuel consumption
- Optimized system
- High reliability
- High availability

Design Standards

- Conformite Europeenne (CE)
- ISO8528-5:2005

Environmental Operating Conditions

- Installation place: outdoor / indoor (well ventilated).
- Ambient temperature: -25℃ to 45℃ (the coolant heater is needed when the temperature is below 5℃)
- Humidity: Less than 80%
- Altitude: Below one thousand (1000) meters.

Factory Inspection

- Protection devices working test
- Starting ability in normal temperature
- 50% rated power load moment capability
- Load test :0, 25%, 50%, 75%, 100%, 110%

Service Support

- Global product service support

Performance Guarantee

- Product design, manufacturing and performance have been verified by standards
- Generator set has passed transient response test according to ISO8528-5
- Both engine and alternator have passed prototype factory testing.

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Power System

Engine

Manufacturer / brand	Cummins
Model	KTA38-G2A
Cylinders	12L
Bore: mm	159
Stroke: mm	159
Displacement: L	37.5
Compression ratio	14.5
Rotate speed: RPM	1500
Prime power: kWm	813
Standby power: kWm	895
Rotate speed governor	EFC
Type of fuel Injection	Direct

Intake system	Turbo charged
Intake resistance: kPa	≦6.23
Exhaust back pressure: kPa	≦10.1
Oil capacity: L	135
Coolant capacity: L	194
Battery voltage: V	24
Dimensions: mm	2265×1379×2232
Dry weight: kg	3723

Alternator

Manufacturer / brand	Stamford
Model	S6L1D-D4
Exciter	Brushless
Windings	100% copper
Winding pitch	2/3
Number of poles	4
Terminals	12

Insulation class	H
Temperature rising class	H
Protection class	IP23
Voltage regulation	±1.0%
Telephone harmonic factor THF	<2%
Telephone interference factor TIF	<50

Control System

Brand	POWERLINK
Model	PLC-7420

General Functions

- Automatic start / stop control
- Manual/remote start control
- Real time monitoring and display of multiple parameters
- RS232, RS485 interface and Ethernet can be used simultaneously
- CAN and Modbus communication
- Provide complete control solutions

Monitoring and protection

Oil pressure	Over load
Water temperature	Over current
Rotate speed	Over voltage
Start	Under voltage
Running time	Over frequency
Battery voltage	Under frequency
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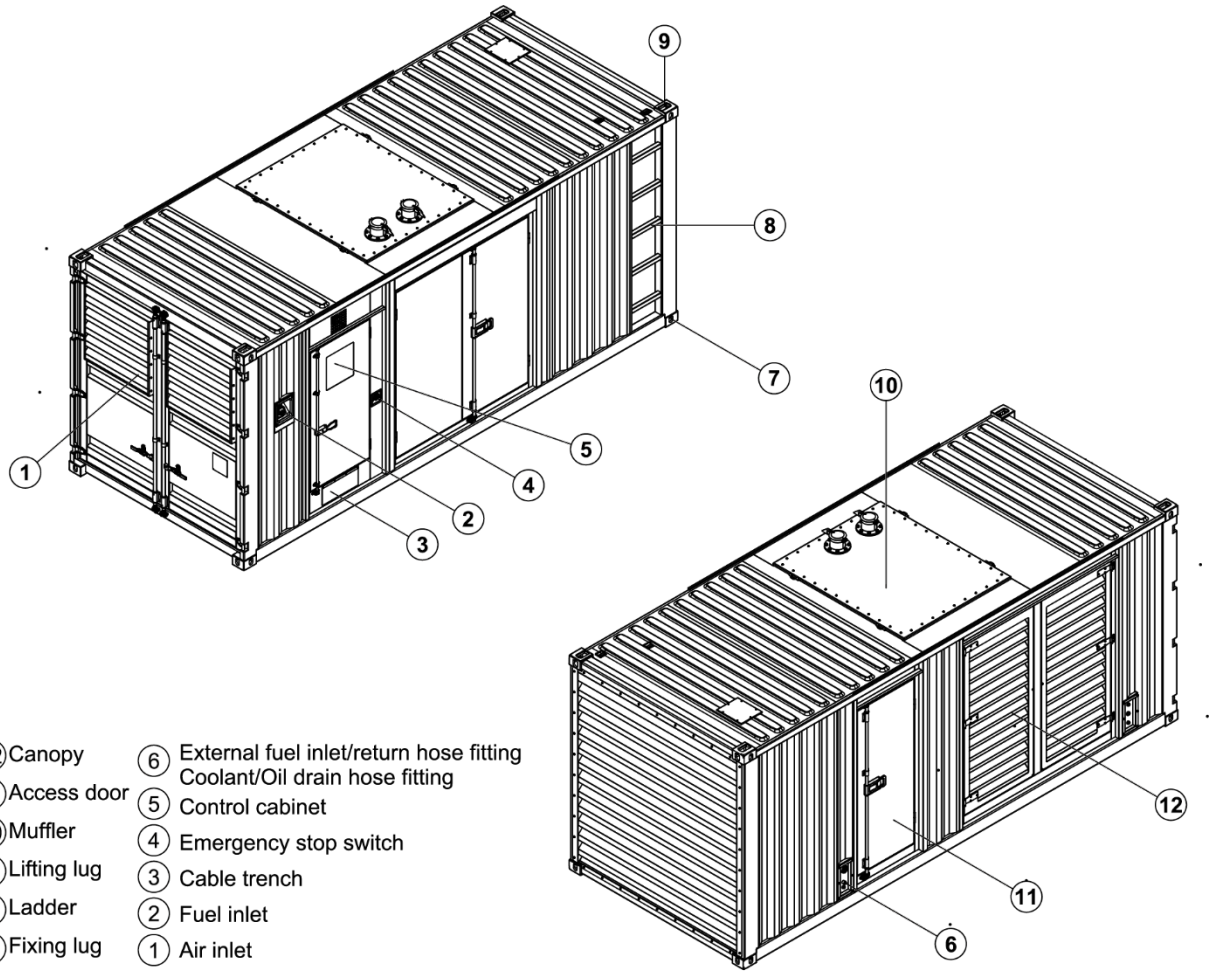
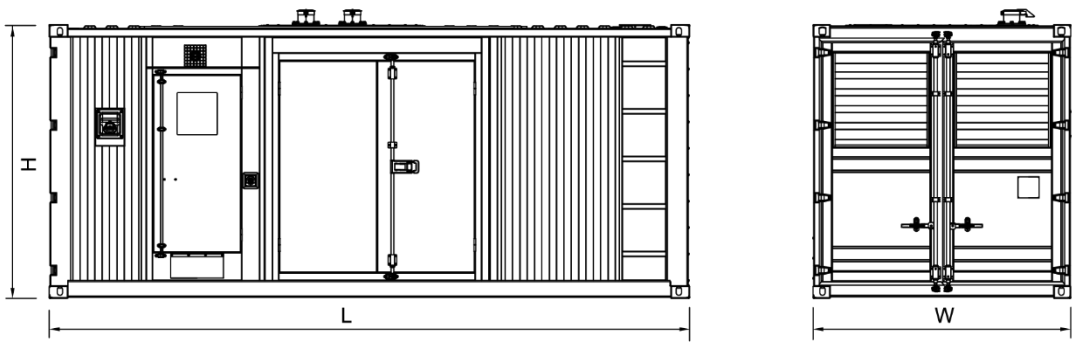
Product Appearance



12	Canopy	6	External fuel inlet/return hose fitting Coolant/Oil drain hose fitting
11	Access door	5	Control cabinet
10	Muffler	4	Emergency stop switch
9	Lifting lug	3	Cable trench
8	Ladder	2	Fuel inlet
7	Fixing lug	1	Air inlet



Product Configuration

Standard configuration

Engine	Generator	Control switchgear	Canopy (sound-proof)	Base Frame
Electrical start motor	Alternator	PLC control system	Steel plate	Steel base frame
Battery system	H class insulation	Main circuit breaker	Corrosion-resistant coating	Engine bracket
Speed control system	H class temperature rising	Breaker cabinet	Access door	Alternator bracket
Turbocharger	IP23 protection	Communication connector	Stainless steel hinge	Radiator bracket
Lockable isolator switch	AVR voltage regulator	ATS connector	Sound absorbing cotton	Vibration isolators
Battery charger		Mains floating charger		

Fuel system	Lubrication system	Cooling system	Intake / exhaust system	Service documents
Base frame fuel tank	Oil pressure sensor	50℃ radiator	Air filter	Installation and operation manual
Fuel level sensor	Oil temperature sensor	Water level sensor	Exhaust muffler	Test report
Flexible connection pipe	Oil filter	Jacket water pipe	Exhaust bellow	Circuit diagram
Fuel filter	Manual oil drain pump	Intercooling pipe	Exhaust pipe and flange	Warranty manual
	Oil drain ball valve		High temperature protective sleeve	Engine operation and maintenance manual
				Standard package

Optional configuration

Engine	Alternator	Control switchgear	Fuel system	Lubrication system
Jacket water preheater	Anti-condensation heater	4P circuit breaker	Fuel three-way valve	Electric oil drain pump
Oil preheater	Treatments against humidity and corrosion	ATS cabinet	Daily fuel tank	
		Paralleling control system		
		Grid-connection system		

Power Class Definition

- Prime Power (PRP): the unit runs continuously with variable load, the number of operating hours is not limited, and 1h overload 10% operation is allowed per 12h, and the average load factor is less than 70% per 24h.
- Standby Power (ESP): operating time does not exceed 500h per year, continuous operating time does not exceed 300h, the average load factor is less than 80% per 24h. Overload operation is not allowed.

Product Statement

- The data of specifications is based on the following standard environmental test conditions.
  - Ambient temperature 25℃
  - Altitude 100m
  - Relative humidity 30%
- Dimensions, weight and other parame0ters are for reference only, which shall be subject to the final design drawing.