

Gensets model	Prime Power (50hz)	Standby Power (50hz)	Engine Model	Alternator Model
WT-SC1100	1000KVA/800KW	1100KVA/8800KW	6WTAA35-G31	WT634J

General Features:

ΔSDEC diesel engine made by SDEC China, with radiator at ambient temperature 40°C, fans are driven by belt, with safety guard

ΔWintpower Alternator with single bearing alternator; IP23 Protection, Insulation class H

ΔAir Filter, Oil filter and fuel filter fitted

ΔLube-oil drain valve fitted

ΔElectric Starter Charge motor 24 VD.C

Δ Battery Charger

ΔOptional soundproof and weatherproof canopy

Δ3 pole MCCB Delixi breaker/Optional ABB

ΔOperation & Maintenance manual

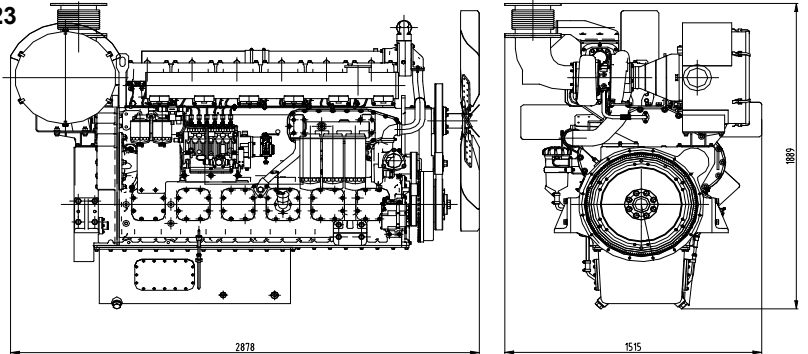
ΔAccessory: A suit of ripple flex exhaust pipe; exhaust siphon, muffler; and a set of spare parts & Tools

Δ The structure is built-up, the built-in residential muffler makes the noise lower.

ΔExhaust guide plate and air channel for air intake&noise reduction are mounted within soundproof canopies.

ΔOutside Emergency Stop Button.

Δ 8 Hours Base Fuel tank is equipped, With lifting ear and forklift slots. Outside fuel inlet/return, outside lub oil and coolant drain.



Voltage Regulation:

Voltage regulation maintained within $\pm 0.5\%$

Between 0.8 and 1.0 lagging and unity

From no load to full load

At speed droop variation upto 4.5%

Frequency Adjustable Ratio:

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation:

load from 0-100%, frequency undulation within 0.25%

No load wire volts max undulation ration\ within 1.8%

Three Phase balanced load in the order of 5%

Note:

1)The engine performance is as per GB/T2820/Ratings are based on GB/T1147.1.

2)Prime Power (PRP): Prime power is available for continuous 12-hours running, in accordance with GB/T2820, ISO8528; A 10% overload capability is available for a period of 1 hour within a 12-hours period of operation. Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power. No overload, soundproof gensets only run under rating power.

3) Standby power is available in the event of a utility power outage or under test conditions for up to 200 hours of operation per year. The permissible average power output over 24 hours of operation shall not exceed 80% of the standby power rating.

Sales Promise:

(1) All the gensets are tested on load before they leave factory, various kinds of functions are tested . and test reports are provided.

(2) Warranty for all of our gensets and accessories is according to our standard conditions since testing: 24 months or 1500 running hours accumutively, subject to the earlier, kindly refer to our service terms.

Engine Technical Data Sheet

◎ SPECIFICATIONS		◎ FUEL CONSUMPTION	
o Engine Model	6WTAA35-G31	o Power	lit/hr
o Engine Type	line, 4 strokes, water-cooled Turbo charged air-to-air intercooled	25%	55.2
o Combustion type	Direct injection	50%	92.9
o Cylinder Type	Wet liner	75%	144.9
o Number of cylinders	6	100%	188.1
o Bore × stroke	186 × 215 mm(in.)	110%	209.4
o Displacement	35.1(2001) lit.(in3)	◎ FUEL SYSTEM	
o Compression ratio	15:01	o Injection pump	Longkou in-line “P9” type
o Firing order	1-5-3-6-2-4	o Governor	Electric type
o Injection timing	22°BTDC	o Feed pump	Mechanical type
o Dry weight	Approx. 4000kg	o Injection nozzle	Multi hole type
o Dimension	2429 × 1387 × 2146 mm	o Opening pressure	290kg/cm2 (4125 psi)
o (L×W×H)	(113.3×59.7×74.4 in.)	o Fuel filter	Full flow, cartridge type
o Rotation	Counter clockwise viewed from Flywheel	o Used fuel	Diesel fuel oil
o Fly wheel housing	SAE NO. 0		
o Fly wheel	SAE NO.18		
◎ MECHANISM		◎ LUBRICATION SYSTEM	
o Type	Over head valve	o Lub. Method	Fully forced pressure feed type
o Number of valve	Intake 1, exhaust 1 per cylinder	o Oil pump	Gear type driven by crankshaft
o Valve lashes at cold	Intake 0.4mm (0.0158 in.)	o Oil filter	Full flow, cartridge type
o Valve lashes at cold	Exhaust 0.45mm (0.0177 in.)	o Oil pan capacity	High level 100 L
	◎ VALVE TIMING	o Oil pan capacity	Low level 75 L
	Opening	Close	o Angularity limit
o Intake valve	58 deg. BTDC	48 deg. ABDC	Front down 25 deg.
o Exhaust valve	54 deg. BBDC	48 deg. ATDC	o Angularity limit
			Front up 35 deg.
			o Angularity limit
			Side to side 35 deg.

◎ COOLING SYSTEM

○ Cooling method	Fresh water forced circulation
○ Water capacity (engine only)	78L (14.78 gal.)
○ Pressure system	Max. 0.5 kg/cm ² (7.11 psi)
○ Water pump	Centrifugal type driven by belt
○ Water pump Capacity	1150L(303.6gal.)/min
○ Thermostat	Wax-pellet type
○ Thermostat	Opening temp. 77°C
○ Thermostat	Full open temp. 90°C
○ Cooling fan	Blower type,iron 1371 mm diameter, 8 blades
○ Cooling air flow	20.82 m ³ /s

◎ ENGINEERING DATA

○ Water flow	1150L/min @1,500 rpm
○ Heat rejection to coolant	33.8kcal/sec @1,500 rpm
○ Air flow	62.9m ³ /min @1,500 rpm
○ Exhaust gas flow	152.6m ³ /min @1,500 rpm
○ Exhaust gas temp. restrictions	680 °C @1,500 rpm
○ Intake system	3 kPa initial
○ Intake system	6 kPa final
○ Exhaust system	6 kPa max.
○ Max. permissible altitude	2,000 m

◎ ELECTRICAL SYSTEM

○ Charging generator	27V×55A
○ Voltage regulator	Built-in type IC regulator
○ Starting motor	24V×13kW
○ Battery Voltage	24V
○ Battery Capacity	200 AH

◎ CONVERSION TABLE

in. = mm × 0.0394	lb/ft = N.m × 0.737
PS = kW × 1.3596	U.S. gal = lit. × 0.264
psi = kg/cm ² × 14.2233	kW = 0.2388 kcal/s
in ³ = lit. × 61.02	lb/PS.h = g/kW.h × 0.00162
in. = mm × 0.0394	lb/ft = N.m × 0.737
hp = PS × 0.98635	cfm = m ³ /min × 35.336
lb = kg × 2.20462	

Alternator Technical data

Wintpower WT634J

△ Brushless,self exciting	Exciter	Brushless
△ class "H" insulation	Cooling Fan	Cast alloy aluminum
△ Standard degree of protection is IP23	Bearing	Single,double shielded
△ self regulating	Windings	100% copper
△ With fan cooling	Connection Type	Reconnectable
△ Resist Humid grease	Insulation Type	Class H
△ AC excitation,roating rectification tube	Pitch	2/3
△ Stator grease insulation covered	Amortisseur Winding	Full
△ Rotator and exciation high polymer,Resist the corruption of oil and acid	Voltage Regulator	AVR AS480UL
△ Rotator ballance is in accordance with BS5625 standard 12.5	Voltage Regulator NL-FL	±0.5%
△ High-quality lubrication sealed long-time bearing	Underspeed Protection	Standard
△ Rotator silicon steel close tight	Overexcitation Protection	IP23
	TIF (1960 Weightings)	<50
	Exciation System	SHUNT

Control Panel -WINTPOWER WT6120

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as

- a) Instruments: Analogue Voltmeter, Hours Run Meter, Water pressure Meter.
- b) Controls: Emergency Stop Pushbutton, Voltmeter Phase Selector Switch.
- c) Control module: Standard collocation is WINTPOWER WT6120



Control module WINTPOWER WT6120NC

Main Features:

- Δ Automatic or manual start/stop of the genset
- Δ 3 phase AMF function
- Δ configuration analog inputs
- Δ Configurable programmable binary inputs and outputs
- Δ Warm-up and cooling functions
- Δ Battery voltage, engine speed measurement
- Δ Modem communication support (IL-AMF25 only)
- Δ RS232 interface
- Δ Support of engines equipped with Electronic Control Unit (J1939 interface)
- Δ Graphic back-lit LCD display
- Δ Comprehensive diagnostic messages; SPN/FMI codes; KWP2000 Support
- Δ 6 LED indicators
- Δ Sealed to IP65
- Δ Generator C.B and Mains C.B control with feedback and return timer

Optional SYK1 (SuYang) Automatic Transfer Switch Without/With Cabinet

The Automatic Transfer Switch Without/With Cabinet Main Function as follows:

ATS can automatically transfer load between the main power and the emergency power (generating set) without operator. When the main power fails or voltage drops below 80% of normal voltage, the ATS will start emergency generating set after a preset time 0-10 seconds (adjustable), and transfer the load to emergency power (generating set). Contrarily, when the main power recovers normal, the ATS will transfer the load from the emergency power (generating set) to the main power, and then stop the emergency power (generating set.)

Optional 1-ATS without Cabinet (Can be installed on the control panel Directly)

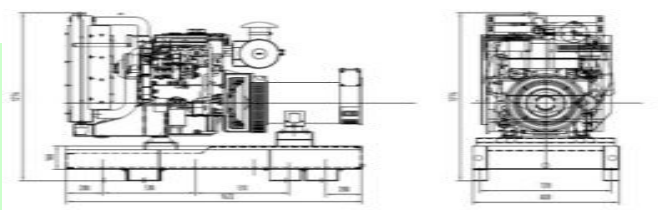
- Δ Small Size/Operator conveniently
- Δ ATS 63A-1150A with Economical Cost

Optional 2-ATS With Cabinet

- Δ Mains on lamp
- Δ Mains on load lamp
- Δ Gensets on lamp
- Δ Gensets on load lamp
- Δ Mode Transfer Switch
- Δ Emergency Stop
- Δ ATS 63A-3200A



Sound Attenuated Enclosure/Option

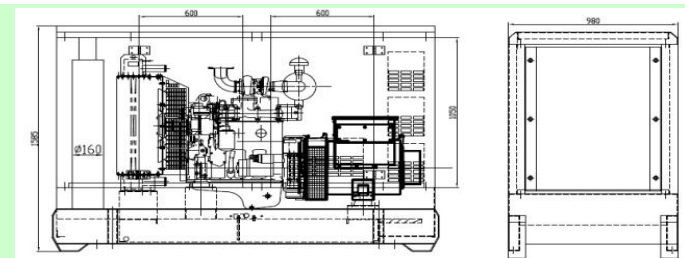


Robust Corrosion Resistant Construction

- Δ Black finish stainless steel lock and hinges
- Δ Body made from steel components treated with

Excellent Access for Maintenance

- Δ Two large doors on each side
- Δ Radiator fill access plate



Δlube oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

Δcontrol panel viewing window in a lockable access door

Δemergency stop push button (red) mounted on

Δcooling fan and battery charging alternator fully

Δexhaust silencing system totally enclosed for operator

Dimensions and Weights-Open Type

Length (L)	Width (W)	Height (H)	Dry	Wet
mm	mm	mm	kg	kg
4365	1580	2300	7200	7200

Dimensions and Weights-Canopy Type

Length (L)	Width (W)	Height (H)	Dry	Wet
mm	mm	mm	kg	kg
6000	2500	2500	8000	8000

Sound Attenuated (SA) Sound Pressure Levels (dBA)

7m (23ft)		1m (3ft)	
75%	100%	75%	100%
Load	Load	Load	Load
76.9	77.8	77.9	79.7



General Information

Wiring Diagram And Testing

A full set of operation and maintenance manuals and circuit wiring diagrams.

Ambient temperature: -25°C to 45°C. The coolant heater is needed when the temperature is below 5°C

Humidity: Less than 80%.

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%,

The customer could also choose the color which the manufacturer offers

Offer a range of optional features to tailor our generator sets to meet your power needs.

Options

50°C High Temperature ● Permanent Magnet Gen ● Auto Control Panel ● Daily Fuel Tank Radiator -erator (PMG) ● Auto Transfer Switch(ATS) ● Base Fuel Tank

Water Separator ● Anti Condensation Heater ● Trailer Type

Water Jacket Heater ● Drop CT(For Paralleling) ● Manual Paralleling System ● Automatic Input System For

Oil Heater ● Auto Paralleling System Fuel

Oil Discharging Pump ● Electronic Indicator for ● Maintenance Tools Fuel Level ● Accessory Bag