WINTPOWER[®]



WT-SC275 275KVA Technical Data sheet







Professional Genset Manufacture FUZHOU WINTPOWER TECHNOLC

DIESEL GENERATOR



Gensets model	Prime Power (50hz)	Standby Power (50hz)	Engine Model	
WT-SC275	250KVA/200KW	275KVA/220KW	SC9D340D2	
General Features:				

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

 $\Delta Wintpower \mbox{ Alternator with single bearing alternator; IF} \label{eq:single-bearing-sin$

ΔAir Filter,Oil filter and fuel filter fitted

ΔLube-oil drain valve fitted

ΔElectric Starter Charge motor 24 VD.C

∆ 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&nois(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 maintanined within ±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:

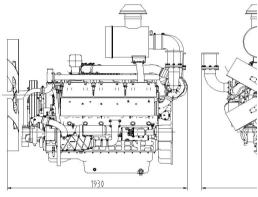
load from 0-100%, frequency undulation within 0.25%

No load wire volts max undulation ration\ within 1.8%

Three Phrase 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 10% overload capability is available for a period of 1 hour within a 12-hours period of operation. Stan (ESP): The standby power rating is applicable for supplying emergency power. No overload, soundpr under rating power.

3)Standby power is available in the event of a utility power outage or under test conditions for up to 2 per year. The permissible average power output over 24 hours of operation shall not exceed 80% of t rating.

Sales Promise:

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

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

Engine Technical Data Sheet

Ø	SPECIFICATIONS	(
○ Engine Model	SC9D340D2	• Power	I
○ Engine Type	In-line,4 strokes, water-cooled 4 valves, Turbo charged Air-to-air intercooled	25%	
 Combustion type 	Direct injection	50%	:
 Cylinder Type 	Wet liner	75%	
 Number of cylinders 	6	100%	ł
o Bore × stroke	114(4.49) × 144(5.67) mm(in.)	110%	!
 Displacement 	8.82(538.2) lit.(in3)		O FUEL SYST
 Compression ratio 	16.5:1	 Injection pur 	np Longkou iı
 Firing order 	1-5-3-6-2-4	o Governor	Elec
 Injection timing 	8.5°BTDC	• Feed pump	Mecha
 Dry weight 	Approx.840 kg (1852 lb)	 Injection nozzle 	Multi
o Dimension	1578×778×1290 mm	o Opening pressure	250 kg/cr
○ (L×W×H)	(62.2×30.7×50.8 in.)	• Fuel filter	Full flow, o
• Rotation	Counter clockwise viewed from Flywheel	Oused fuel	Diese
 Fly wheel housing 	SAE NO.2		
• Fly wheel	SAE NO.11.5		

© MECHANISM

© LUBRICATION S

• Туре	Over head valve	• Lub. Method	Fully forced p
 Number of valve 	Intake 2, exhaust 2 per cylinder	Oil pump	Gear type driv
 Valve lashes at cold 	Intake 0.30mm (0.0118 in.)	○ Oil filter	Full flow,
 Valve lashes at cold 	Exhaust 0.55mm (0.0217 in.)	 Oil pan capacity 	High level 25
COIU	© VALVE TIMING	• Oil pan capacity	Low level 22

	Opening	Close	 ○ Angularity limit 	Front do
o Intake valve	29.5 deg. BTDC	42.5 deg. ABDC	○ Angularity limit	Front ι
• Exhaust valve	69.5 deg. BBDC	34.5 deg. ATDC	 Angularity limit 	Side to s

© C(DOLING SYSTEM	© EN	IGINEERING
• Cooling method	Fresh water forced circulation	 Water flow 	200 liters/m
 Water capacity (engine only) 	12 liters (3.17 gal.)	 Heat rejection to coolant 	20.35 kcal/s
 Pressure system 	Max. 0.5 kg/cm2 (7.11 psi)	• Air flow	18.6 m3/mi
 Water pump 	Centrifugal type driven by belt	○ Exhaust gas flow	41 m3/mir
o Water pump Capacity	200 liters (52.8 gal.)/min	 Exhaust gas temp. restrictions 	600 °C (
o Thermostat	Wax-pellet type	o Intake system	3 kP
○ Thermostat	Opening temp. 82°C	o Intake system	6 ki
○ Thermostat	Full open temp. 93°C	○ Exhaust system	6 kF
◦ Cooling fan	Blower type, plastic 762 mm diameter, 10 blades	 Max. permissible altitude 	2,0
o Cooling air flow	6.97m³/s		

© ELEC	CTRICAL SYSTEM	© CONVE	RSION
o Charging generator	28V×55A	in. = mm × 0.0394	lb/1
 Voltage regulator 	Built-in type IC regulator	PS = kW × 1.3596	U.S.
• Starting motor	24V×7.5kW	psi = kg/cm2 × 14.2233	kW
 Battery Voltage 	24V	in3 = lit. × 61.02	lb/PS.h
• Battery Capacity	180 AH	in. = mm × 0.0394	lb/1
		hp = PS × 0.98635	cfm =
		lb = kg × 2.20462	

Alternator Technical data

WINTPOWER WT274G200	
△ Bruxhless,self exciting	Exciter
△ class "H" insulation	Cooling Fan
△ Standard degree of protection is IP23	Bearing
∆ self regulating	Windings
△ With fan cooling	Connection Type
△ Resist Humid grease	Insulation Type
△ AC excitation,roating rectification tube	Pitch
△ Stator grease insulation covered	Amortisseur Winding
Δ Rotator and exciation high polymer,Resist the corruption of	Voltage Regulator
oil and acid	Voltage Regulator NL-FL

△ Rotator ballance is in accordance with BS5625 standard 12.5

- △ High-quality lubrication sealed long-time bearing
- △ Rotator sillicon steel close tight

Underspeed Protection Overexcitation Protection TIF (1960 Weightings) **Exciation System**

Control Panel - DEEPSEA DSE7220

The base mounted control panel in a vibration isolated sheet steel enclosure. The control pa a)Instruments: Analogue Volmeter, Hours Run Meter. Water pressure Meter.

- b) Controls: Emergency Stop Pushbutton, Volmeter Phase Selector Switch.
- c) Control module:Standard collocation is DEEPSEA DSE7320



DEEPSEA DSE7320 CONTROLLER

Main Features:

Δ Automatic or manual start/stop of th

- Δ 3 phase AMF function Δ configuration analog inputs
- **Δ** Configurable programmable binary
- Δ Warm-up and cooling functions
- Δ Battery voltage,engine speed meas
- Δ Modem communication support(IL-
- Δ RS232 interface

Δ Support of engines equipped with (J1939 interface)

Δ Graphic back-lit LCD display

Δ Comprehensive diagnostic messag codes;KWP2000 Support

- Δ 6 LED indicators
- Δ Sealed to IP65

Δ Generator C.B and Mains C.B contr return timer

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

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

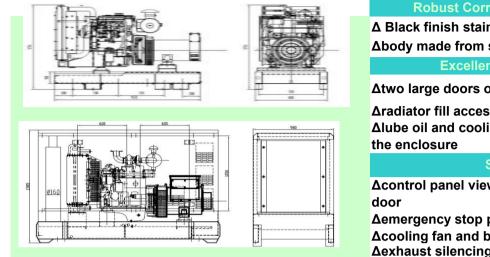
ATS can automatically transfer load between the main power and the emergency power(gen without operator. When the main power fails or voltage drops below 80% of normal voltage, emergency generating set after a preset time 0-10 seconds(adjustable), and transfer the loac power(generating set).Contrarily,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

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

Δ Small Size/Operator conveniently Δ ATS 63A-1100A with Economical Cost

Optional 2-ATS With Cabinet ∆Mains on lamp **ΔMains on load lamp** ∆Gensets on lamp ∆Gensets on load lamp ΔMode Transfer Switchr **ΔEmergency Stop** ΔATS 63A-3200A





Robust Corrosion Resustan

Δ Black finish stainless stell lock a Δbody made from steelcomponent **Excellent Access for Ma**

Δtwo large doors on each side

∆radiator fill access plate Alube oil and cooling water drains

Security and Saf

Δcontrol panel viewing window in

∆emergency stop push buttom (re **Δcooling fan and battery charging** Δexhaust silencing system totally

Dimensions and	d Weights-Ope	n Type		
Length (L)	Width (W)	Height (H)	Dry	Wet
mm	mm	mm	kg	kg
2700	1038	1680	2660	2710
imensions and	l Weights-Can	ору Туре		
Length (L)	Width (W)	Height (H)	Dry	Wet
mm	mm	mm	kg	kg
3560	1220	1815	2760	2810
ound Attenuated	d (SA) Sound Pr	essure Level	s (dBA)	
7m (2	23ft)	1m (3ft)	
75%	100%	75%	100%	
Load	Load	Load	Load	
76.9	77.8	77.9	79.7	

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 (PMC Switch(ATS)
Base Fuel Tank

Water Separator

Anti Condensation Heater
Trailer Type

Water Jacket Heater

Drop CT(For Paralleling)
Manual Paralleling System
Automatic Input Syste

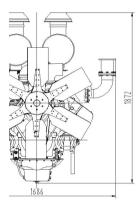
Oil Heater • Auto Paralleling System Fuel



On Your Side)GY CO., LTD.













GB/T2820, ISO8528; A dby Power Rating oof gensets only run

200 hours of operation he standby power

and test reports are

ting: 24 months or

IPTION

it/hr

14.7	
27.3	
40.8	
54.1	
59.6	
EM	
n-line "P" type	
tric type	

nical type

hole type

n2 (3556 psi)

cartridge type

l fuel oil

SYSTEM

ressure feed type /en by crankshaft

cartridge type

5 liters (6.6 gal.)

! liters (5.8 gal.)

own 25 deg.

up 35 deg.

side 35 deg.

DATA in @1,500 rpm

ec @1,500 rpm

in @1,500 rpm

າ @1,500 rpm

@1,500 rpm

'a initial

Pa final

a max.

000 m

TABLE

ft = N.m × 0.737

gal = lit. × 0.264

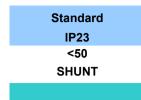
= 0.2388 kcal/s

= g/kW.h × 0.00162

it = N.m × 0.737

• m3/min × 35.336

Brushless Cast alloy aluminum Single,double shielded 100% copper Reconnectable Class H 2/3 Full AVR SX460 ±0.5%



nel is equipped as

ie genset

i inputs and outputs

urement AMF25 only)

Electronic Control Unit

es; SPN/FMI

ol with feedback and

erationg set) the ATS will start I to emergency er the load from the generating set.)





t Construction

and hinges

ts treated with

aintenance

pipes to exterior of

ety

a lockable access

d)mounted on alternator fully enclosed for



a) ● Auto Transfer

m For