

TSO55ZS

60Hz POWERED BY SDEC SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 380/220V-60Hz-3Phase

Model	TSO55ZS	
Power(ESP)	kVA/kw	55/44
Power(PRP)	kVA/kw	50/40
Starter Voltage	V	24
Rated Current	A	84
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	Litre/hour	13.8 L / h
Fuel Tank Capacity	Litre	Open Type : 158 / Silent Type: 278
Noise level	dB(A)@7m	

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	1800mm*820mm*1247mm	844 Kg
Silent Type		

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: SINOCOX, SMF225B

Diesel Engine: SDEC , 4H4.3-G22

Standby Power: Continues running at variable load for duration of an emergency. No overload is permitted on these ratings.

Prime Power: Continues running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

CONFIGURATION:

Standard: Engine, alternator, cooling system, Base frame (excluding fuel tank), shock absorber, air inlet system, control box (including mains floating charge), plastic fan blades (when the engine and water tank do not bring).

Optional: Base frame (including fuel tank), water jacket heater, fuel water separator, fuel heater, fuel level sensor (only supporting underframe tank), switch box (with switch), power switch, the water level sensor, motor anti condensation heater, automatic fueling system (only supporting base frame including fuel tank), battery frame.

Accessories: Silencer, bellow, exhaust silencing system accessories (with the matching engine), regular battery, starting cord assembly, data of gen-set, random tool (with the matching engine).



ENGINE Specification

Manufacturer: SDEC

Model	4H4.3-G22
Engine speed Rated	1800 RPM
Cylinder /Arrangement	4 / L
Displacement	4.3 L
Bore and Stroke	105 mm×124 mm
Compression ratio	17.3 : 1
Max. stand by power at rated RPM	56KW
Frequency regulation , steady state	
Governor : type	Electrical
Aspiration and Cooling	naturally aspirated

Exhaust System

Exhaust gas flow	12.4m ³ /min
Exhaust temperature	600 ℃
Max back pressure	6kPa

Fuel System

Fuel consumption100% (of the Prime Power)	13.8 L / h
Fuel consumption75% (of the Prime Power)	10.7 L/h
Fuel consumption50% (of the Prime Power)	7.8 L/h
Fuel consumption110% (of the Prime Power)	15.5 L/h

Oil system

Total oil capacity w/filters	13 L
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Air intake

Engine air flow	5.3m ³ /min
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Coolant System

Radiator & engine capacity	6.8 L
Max water temperature	104 ℃
Thermostat	82-95 ℃



- Powered by SDEC
- Engine with Modular Design .Standardized design of accessories ,patent design ,machine body with strengthened high-intensity and rigidity
- Four-Valve Mechanism high-accuracy speed regulator
- Strong environmental adaptability capability ,powerful cold boot capability

Note: All data sheets are for reference only and subject to change without prior notice.



ALTERNATOR Specification

Manufacturer: SINOCOX

Type	SMF225B
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	Brushless SHUNT
Insulation : class , temperature rise	H / H
Degree of protection	IP23
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	12

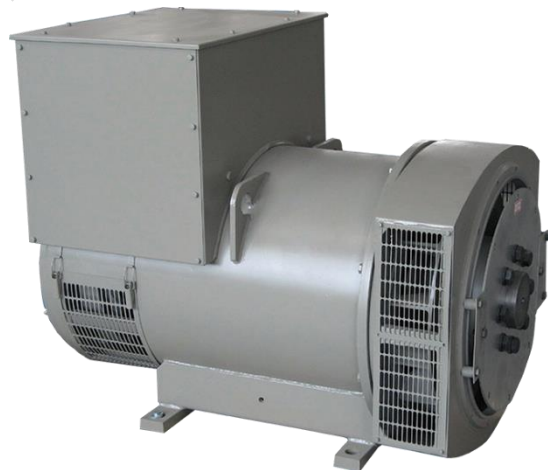
FEATURES

- Class H insulation system
- selectable winding, To meet the demand of the bad environment
- 12 Lead Reconnect, able for different voltage, meet the demand of different countries and regions
- 2/3 pitch windings restrain the content of harmonious
- Different Excitation Systems for different load demand
- Ip23 standard protection, IP44 for option
- Provide single bearing or double bearing

STANDARDS

-IEC60034, NEMA MG1-32, ISO8528, CSA
C22.2-100, VDE 0530, GB755

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Control Panel

Model: SGC 420

SINGLE GENSET CONTROLLERS.

DIMENSIONS

OVERALL

233mm x 173mm x 38.5mm

PANEL CUTOUT

219mm x 158mm



KEY FEATURES

- Auto, manual and remote start/stop modes with night restriction option
- 17 inputs, configurable
- 5 resistive
- 2 analogue I/V
- 1 differential
- 9 digital
- 7 digital outputs, configurable
- Modbus over RS-485
- Manually configurable from the controller front buttons or from a PC using DEIF Smart Connect utility software
- Backlit full graphics LCD with power saving feature for extended battery lifetime
- Supports the battery charging alternator I/O interface
- Supports Auto mode (site battery monitoring, AMF, remote start/stop, auto exercise and cyclic) and manual running modes
- Magnetic Pickup Unit (MPU) interface for engine speed measurement
- Auto exercise mode (2 events) to start and stop the genset for a preconfigured time
- Monitors 1-phase/3-phase voltage, frequency, load current and power factor for generator
- Monitors engine safety parameters like lube oil pressure, engine temperature, fuel level and more
- Monitors telecom site battery backup level and shelter temperature to reduce engine running and fuel consumption at telecom tower sites
- Controls start relay, fuel relay, alarm horn and more as digital outputs
- Event log for 100 events with real time clock (RTC) stamps and engine running hours information
- Counters for engine starts, engine trips, engine running hours, genset and Mains kWh, kVAh, kvarh
- Measures mains kW, kVA
- CANbus for engine communication with support for Stage 5/ Tier 4 Final

KEY FUNCTIONS

- LCD display
- True RMS voltage and current monitoring
- RS-485 base communication
- Monitoring of engine and alternator parameters
- Fully configurable inputs and outputs for a wide range of functions