

## TSO135ZS 60Hz POWERED BY SDEC SERIES





### **TECHNICAL SPECIFICATIONS**

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

Model	TSO135ZS	
Power(ESP)	kVA/kw	138/110
Power(PRP)	kVA/kw	125/100
Starter Voltage	V	24
Rated Current	А	209
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	Litre/hour	28.8 L / h
Fuel Tank Capacity	Litre	Open Type : 218 / Silent Type: 342
Noise level	dB(A)@7m	

#### WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	2170mm*880mm*1392mm	1384 Kg
Silent Type		

#### **STANDARDS:**

Genset: GB/T2820-2009,ISO8528

Alternator: SINOCOX , SMF270CS

Diesel Engine: SDEC, 4HTAA4.3-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).

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## **ENGINE Specification**

Manufacturer: SDEC	
Model	4HTAA4.3-G22
Engine speed Rated	1800 RPM
Cylinder /Arrangement	4 / L
Displacement	4.3 L
Bore and Stroke	105 mm×124 mm
Compression ratio	16:1
Max. stand by power at rated RPM	132KW
Frequency regulation , steady state	
Governor : type	Electrical
Aspiration and Cooling	Turbo charged with aftercooler
Exhaust System	
Exhaust gas flow	23.4m 3min
Exhaust temperature	600 °C
Max back pressure	6kPa
Fuel System	
Fuel consumption100% (of the Prime Power)	28.8 L / h
Fuel consumption75% (of the Prime Power)	21.8 L/h
Fuel consumption50% (of the Prime Power)	14.8 L/h
Fuel consumption110% (of the Prime Power)	32.8 L/h
Oil system	
Total oil capacity w/filters	13 L
Air intake	
Engine air flow	10m 3min
Coolant System	
Radiator & engine capacity	6.8 L
Max water temperature	104 °C
Thermostat	82-95 °C



- 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

Туре	SMF270CS	
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  $\triangleright$ restriction option
- 17 inputs, configurable  $\triangleright$
- $\triangleright$ 5 resistive
- $\triangleright$ 2 analogue I/V
- $\triangleright$ 1 differential
- $\triangleright$ 9 digital
- 7 digital outputs, configurable ≻
- $\triangleright$ Modbus over RS-485
- $\triangleright$ Manually configurable from the controller front buttons or  $\succ$ from a PC using DEIF Smart Connect utility software
- Backlit full graphics LCD with power saving feature for  $\geq$ extended battery lifetime
- Supports the battery charging alternator I/O interface  $\triangleright$
- $\triangleright$ Supports Auto mode (site battery monitoring, AMF, remote start/stop, auto exercise and cyclic) and manual running modes
- $\triangleright$ Magnetic Pickup Unit (MPU) interface for engine speed measurement
- Auto exercise mode (2 events) to start and stop the genset  $\succ$  $\triangleright$ for a preconfigured time
- Monitors 1-phase/3-phase voltage, frequency, load current

and power factor for generator

- $\triangleright$ Monitors engine safety parameters like lube oil pressure, engine temperature, fuel level and more
- Monitors telecom site battery backup level and shelter  $\triangleright$ 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
- $\triangleright$ Measures mains kW, kVA
- $\triangleright$ CANbus for engine communication with support for Stage 5/ Tier 4 Final

#### **KEY FUNCTIONS**

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

SGC 420

## **Excellent** Power Solution

