

TC115ZS 60Hz POWERED BY CUMMINS SERIES





TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 220/127V-60Hz-3Phase

Model	TC115ZS	
Power(ESP)	kVA/kW	112/89.6
Power(PRP)	kVA/kW	103/82.1
Starter Voltage	V	24
Rated Current	А	294
Rated rotation speed	r/min	1800
Power Factor		0.8
Fuel Consumption	L/hour	28.5L/h
Fuel Tank Capacity	L	Open Type : 218 / Silent Type: 342
Noise level	dB(A)@7m	Silent Type: ≤78

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	2195mm×913mm×1412.5mm	1266 Kg
Silent Type	3146mm×1126mm×1850mm	1888 Kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: SINOCOX, SMF225G

Diesel Engine: CUMMINS, 6BT5.9-G2

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: CUMMINS	
Model	6BT5.9-G2
Engine speed Rated	1800 RPM
Cylinder /Arrangement	6 / L
Displacement	5.9 L
Bore and Stroke	102 mm×120 mm
Compression ratio	17.3 : 1
Max. stand by power at rated RPM	110KW
Frequency regulation , steady state	
Governor : type	Electrical
Aspiration and Cooling	Turbocharged
Exhaust System	
Exhaust gas flow	319L/sec
Exhaust temperature	577 °C
Max back pressure	10kpa
Fuel System	
Fuel consumption100% (of the Prime Power)	28.5L/h
Fuel consumption75% (of the Prime Power)	20.7L/h
Fuel consumption50% (of the Prime Power)	14.4L/h
Fuel consumption110% (of the Prime Power)	31.3L/h
Oil system	
Total oil capacity w/filters	16.4L
Air intake	
Engine air flow	112L/sec
Coolant System	
Radiator & engine capacity	7.9L
Max water temperature	104 °C
Thermostat	82-95 °C



- Cummins engines with advanced design, reliable performance, durable operation.
- Alloy-steel and connecting steel-lever, high durability
- High combustion efficiency and low fuel consumption, work continuously
- P/T pump injection technology, low cost, completely combustion

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





ALTERNATOR Specification

Manufacturer: SINOCOX

Туре	SMF225G
Number of phase power	3
Factor (Cos Phi)	0.8
Pole	4
Bearing	1
Coupling	Direct
Exciter type	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

