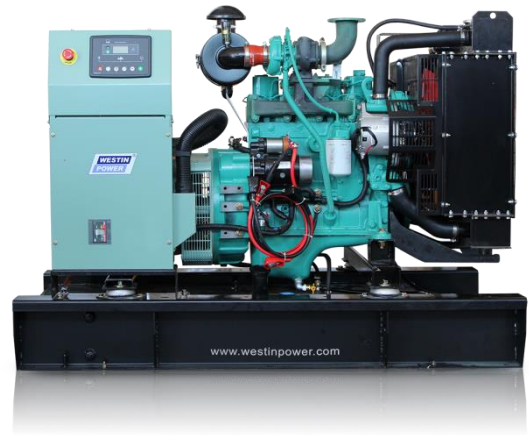




TC44T 50Hz POWERED BY CUMMINS SERIES



TECHNICAL SPECIFICATIONS

DIESEL GENERATING SET 400/230V-50Hz-3Phase

Model	TC44T	
Power(ESP)	kVA/kw	44/35
Power(PRP)	kVA/kw	40/32
Starter Voltage	V	24
Rated Current	A	64
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	Litre/hour	9.3
Fuel Tank Capacity	Litre	Open Type : 158 / Silent Type: 278
Noise level	dB(A)@7m	Silent Type: ≤72

WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	1856mm*835mm*1351.5mm	860 Kg
Silent Type	2396mm*1056mm*1723mm	1226 Kg

STANDARDS:

Genset: GB/T2820—2009,ISO8528

Alternator: STAMFORD, S1L2-K1

Diesel Engine: CUMMINS , 4BT3.9-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).





ENGINE Specification

Manufacturer: CUMMINS

Model	4BT3.9-G2
Engine speed Rated	1500 RPM
Cylinder /Arrangement	4 / L
Displacement	3.9 L
Bore and Stroke	102 mm×120 mm
Compression ratio	18 : 1
Max. stand by power at rated RPM	40 KW
Frequency regulation , steady state	≤1%
Governor : type	Electrical
Aspiration and Cooling	Turbocharger

Exhaust System

Exhaust gas flow	108 L/s
Exhaust temperature	487 °C
Max back pressure	10kPa

Fuel System

Fuel consumption100% (of the Prime Power)	9.3L / h
Fuel consumption75% (of the Prime Power)	7.3L / h
Fuel consumption50% (of the Prime Power)	5.3L / h
Fuel consumption110% (of the Prime Power)	10.3L / h

Oil system

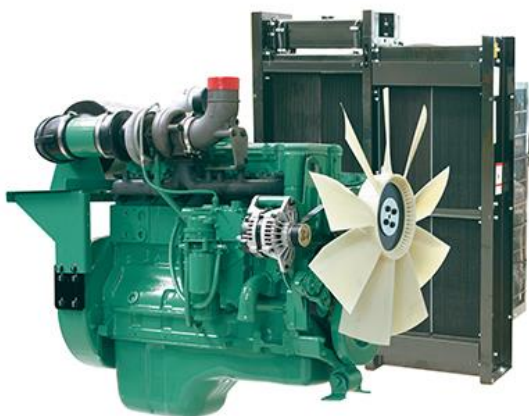
Total oil capacity w/filters	10.9 L
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Air intake

Engine air flow	44.9L/s
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Coolant System

Engine capacity	7.2 L
Max water temperature	104 °C
Thermostat	83-95 °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: STAMFORD

Type	S1L2-K1
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
AVR model	AS540
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	12

FEATURES

- Utilising wire-wound* (random-wound) technology
- Environment alternators are the industry benchmark for all generator set configurations.
- Brushless excitation with AVR
- IP21, IP22, IP23, IP44 enclosure protection.
- The ideal solution for marine/offshore, UPS, telecoms, basic and advanced protection, construction and other continuous or standby power applications.

STAMFORD

STANDARDS

- GB755, BS5000 part three, VDE0530, NEMA MG1-22, IEC-34, CSA C22-100 and AS1359
- All alternators are manufactured in ISO 9001 and ISO 14001 environments.



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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