

# TC165T

50Hz POWERED BY CUMMINS SERIES



## TECHNICAL SPECIFICATIONS

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

Model	TC165T	
Power(ESP)	kVA/kW	165/132
Power(PRP)	kVA/kW	150/120
Rated Voltage	V	400
Rated Current	A	238
Rated Rotation Speed	r/min	1500
Power Factor	Cos Phi	0.8
Fuel Consumption	L/h	34
Fuel Tank Capacity	L	Open Type: 262 / Silent Type: 370
Noise Level	dB(A)@7m	≤76

## WEIGHT AND DIMENSIONS

GEN-Set	Dimension ( L*W*H )	Weight
Open Type	2350mm*950mm*1430mm	1394 Kg
Silent Type	3436mm*1106mm*1968mm	2144 Kg

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## STANDARDS:

**Genset:** GB/T2820-2009, ISO8528

**Alternator:** Stamford, UCI 274F

**Diesel Engine:** Cummins, 6BTAA5.9-G12

**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	6BTAA5.9-G12
Engine Speed Rated	1500 RPM
Cylinder /Arrangement	6 / L
Displacement	5.9 L
Bore and Stroke	102 mm×120 mm
Compression Ratio	17.3 : 1
Max. standby power at rated RPM	155kW
Frequency regulation, steady state	≤1%
Governor: type	Electronic
Aspiration and Cooling	Turbocharged and Air to Air After-cooled



### Exhaust System

Exhaust gas flow	321 L/s
Exhaust temperature	495°C
Max. back pressure	10kPa

### Fuel System

Fuel consumption100% (of the Prime Power)	34 L / h
Fuel consumption75% (of the Prime Power)	26 L / h
Fuel consumption50% (of the Prime Power)	17 L / h
Fuel consumption25% (of the Prime Power)	10 L / h

### Oil System

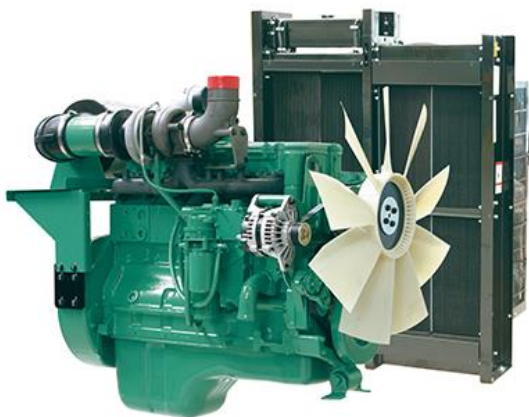
Total oil capacity w/filters	16.4 L
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### Air Intake

Engine air flow	137L/s
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### Coolant System

Radiator & engine capacity	35 L
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

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



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# ALTERNATOR Specification

## Manufacturer: Stamford

Type	UCI 274F
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	AS440
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

### FEATURES

- Utilizing 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.

### 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

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# STAMFORD



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