

# TC275T 50Hz POWERED BY CUMMINS SERIES



## TECHNICAL SPECIFICATIONS

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

Model	TC275T	
Power(ESP)	kVA/kw	264/211
Power(PRP)	kVA/kw	250/200
Rated Voltage	V	400
Rated Current	A	381
Rated rotation speed	r/min	1500
Power Factor		0.8
Fuel Consumption	Litre/hour	53L / h
Fuel Tank Capacity	Litre	Open Type : 303 / Silent Type: 460
Noise level	dB(A)@7m	Silent Type: 76±2

## WEIGHT AND DIMENSIONS

GEN-Set	Dimension (L*W*H)	Weight
Open Type	2584mm*1008mm*1667.5mm	2022 Kg
Silent Type	3686mm*1256mm*2068mm	2679 Kg

### STANDARDS:

**Genset:** GB/T2820—2009,ISO8528

**Alternator:** STAMFORD UCDI 274K

**Diesel Engine:** CUMMINS , 6LTAA8.9-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

<b>Model</b>	6LTAA8.9-G2
<b>Engine speed Rated</b>	1500 RPM
<b>Cylinder /Arrangement</b>	6 / L
<b>Displacement</b>	8.9 L
<b>Bore and Stroke</b>	114 mm×145 mm
<b>Compression ratio</b>	16.6 : 1
<b>Max. stand by power at rated RPM</b>	240KW
<b>Frequency regulation , steady state</b>	≤1%
<b>Governor : type</b>	Electrical
<b>Aspiration and Cooling</b>	Turbocharged & Charge Air Cooled

## Exhaust System

<b>Exhaust gas flow</b>	634 L/s
<b>Exhaust temperature</b>	470°C
<b>Max back pressure</b>	10.1kPa

## Fuel System

<b>Fuel consumption100% (of the Prime Power)</b>	53L / h
<b>Fuel consumption75% (of the Prime Power)</b>	39L / h
<b>Fuel consumption50% (of the Prime Power)</b>	27L / h
<b>Fuel consumption110% (of the Prime Power)</b>	58L / h

## Oil system

<b>Total oil capacity w/filters</b>	27.6 L
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## Air intake

<b>Engine air flow</b>	254L/s
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## Coolant System

<b>Engine capacity</b>	11.1 L
<b>Max water temperature</b>	110°C
<b>Thermostat</b>	82-93°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	UCDI 274K
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

- 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.

## 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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# STAMFORD

