

# WINTPOWER®



## WT-C500 Technical Data sheet



Professional Genset Manufacture On Your Side  
FUZHOU WINTPOWER TECHNOLOGY CO., LTD.

## DIESEL GENERATOR

### Powered by Cummins Engine & Leroy Somer Alternator

#### STANDARD SPECIFICATION

Three phase four wire, output voltage 400/230V, 50HZ, between 0.8 lagging, protection capability according with the standard of NEMA1 and IP23.

#### General Features:

- Δ Composed of Cummins diesel engine and Leroy Somer alternator
- Δ Oil and fuel filter fitted, water separator
- Δ Lube-oil drain valve fitted
- Δ Electric Starter Charge motor 24 V.D.C
- Δ Water-cooled
- Δ baseskid fuel tank
- Δ Auto start
- Δ Optional soundproof and weatherproof canopy
- Δ 3 pole MCCB Delixi breaker/Optional ABB
- Δ Operation & Maintenance manual
- Δ Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

#### Voltage Regulation

- Voltage regulation maintained within  $\pm 0.5\%$
- Between 0.8 and 1.0 lagging and unity
- From no load to full load
- At speed droop variation upto 4.5%

#### Frequency Adjustable Ratio

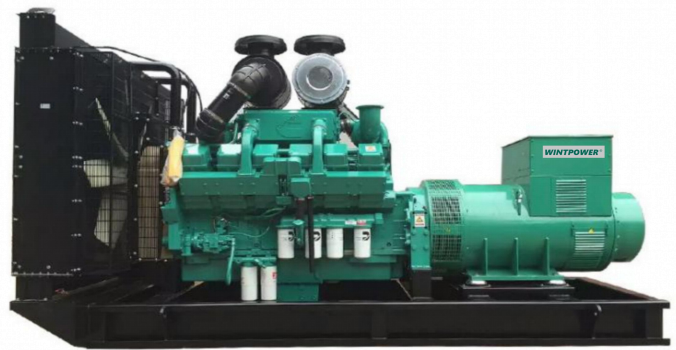
- Change load from 0-100%, within 1.0% ( electric speed regulator), within 4.5% ( mechanical speed regulator)

#### Frequency Undulation

- load from 0-100%, frequency undulation within 0.25%
- No load wire volts max undulation ration\ within 1.8%
- Three Pharse balanced load in the order of 5%

#### Effect factor of Telecom

- TIF better than 50
- THF to IEC60034 Part 40 better than 2%



#### 50HZ, 1500RPM, 3-PHASE, 400/230V

Gensets model	Power output(KVA)		Power output (KW)		Cummins Engine Model	Leroy Somer Alternator
	PRP	ESP	PRP	ESP		
<b>WT-C500</b>	<b>450</b>	<b>500</b>	<b>360</b>	<b>400</b>	<b>KTA19-G3</b>	<b>TAL-A47-B</b>

Note:

- (1) Available in the following voltages: 220V-240V AND 380V-415V(440V)-50HZ
- (2) PRP: Prime Power-Continuous duty operation, under variable load 24/24-h-10% overload permissible 1 hour/12hours.
- (3) Rating Definitions (Operation at Altitude  $\leq 1000m$ , Ambient temperature  $\leq 40^{\circ}C$ ) Continuous Power. These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power.

#### Engine & Alternator

**ENGINE**--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

**ALTERNATOR**--Brushless,self exciting,self regulation,sreen protected,drip proof rated in accordance with IEC60034.Voltage regulation maintained within  $\pm 0.5\%$  from no load to full load.between 0.8 lagging and unity.All standard voltages available.

**COOLING**--Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 45 °C ,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

**ELECTRICAL SYSTEM**--24V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

**EXHAUST SYSTEM**--Heavy duty industrial exhaust silencer with flexible piping.

## Technical Data Sheet

**Generating sets model:**

**400V,50Hz,1500 rpm**

Engine Model:	Cummins KTA19G3	
Type	6 cylinder,4 cycle diesel	
Aspiration	Turbocharged	
Bore/Stroke	mm	159X159
Compress the ratio	13.9:1	
Cooling system	Water-cooled	
100% Load Fuel Consumption	L/H	97
Engine Speed/Frequency	RPM/Hz	1500/50HZ
Rated Output	kw/Bhp	403/540
Exhaust air flow	(m3/min)	588
Coolant Capacity	L	91
Starting System	Electric 24 volt DC	
Displacement	L	18.9
Lubricant system Capacity	L	50
Battery Volatge / Capacity	24VDC	
Governing Type	Electrical (GAC governor)	
Exhaust Gas Temperature	°C	524
Exhaust Gas flow	m3/min	84.3
Noise level	dBA@1m	$\leq 75$ dBA(container type)

### Genset Option Features

ΔLow fuel level alarm shutdown  
 ΔAutomatic Fuel Filling System  
 ΔEngine oil feeding and drain pump  
 ΔAuto Transfter Switch( ATS)  
 ΔParallel control panels  
 ΔCircuit Breaker MCCB & ACB  
 ΔRemote Control Panel  
 Δweatherproof/soundproof Canopy  
 ΔTrailer type Gensets

### QUALITY STANDARDS

ISO9001:2020,ISO14001,ISO3046  
 ISO8528 BS4999  
 BS5514,AS1359,ICE34  
 CE Compliance

### Gensets Dimensions & Weight

Open type:L\*W\*H,mm  
 3380×1320×1850  
 Enclosure type:L\*W\*H,mm  
 4570×1540×2200

## Alternator Technical data

**Leroy Somer: TAL-A47-B**

Δ Bruhxless,self exciting  
 Δ Class "H" insulation  
 Δ Standard degree of protection is IP23  
 Δ Sself regulating  
 Δ With fan cooling  
 Δ Resist Humid grease  
 Δ AC excitation,roating rectification tube  
 Δ Stator grease insulation covered  
 Δ Rotator and exciation high polymer,Resist the corruption of oil and acid  
 Δ Rotator ballance is in accordance with BS5625 standard 12.5  
 Δ High-quality lubrication sealed long-time bearing  
 Δ Rotator silicon steel close tight

Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Bearing	Single,double shielded
Windings	100% copper
Connection Type	Reconnectable
Insulation Type	Class H
Pitch	2/3
Amortisseur Winding	Full
Voltage Regulator	AR250
Voltage Regulator NL-FL	$\pm 0.5\%$
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	PMG

## Control Panel - DEEPSEA7320

The base mounted control panel in a vibration isolated sheet steel enclosure.The control panel is equipped as follows:

- Instruments:Analogue Volmeter,Hours Run Meter.Water pressure Meter.
- Controls:Emergency Stop Pushbutton,Volmeter Phase Selector Switch.
- Control module:Standard collocation is DSE7320 Auto start .



**DSE7320**

### Main Features:

- Δ Automatic mains failure
- Δ Engine control, Generator protection
- Δ Built in alarms and warnings
- Δ Remote Start operation available
- Δ Daily / weekly / monthly exerciser
- Δ Weekly operation schedule programs
- Δ Fuel pump control
- Δ ECU control and monitoring
- Δ Mains simulation
- Δ Block heater control
- Δ Field adjustable parameters
- Δ Free MS-Windows Remote monitoring
- Δ LED displays
- Δ Configurable analogue inputs

#### Robust Corrosion Resistant Construction

- Δ Black finish stainless steel lock and hinges
- Δ Body made from steel components treated with polyester powder coating

#### Excellent Access for Maintenance

- Δ two large doors on each side
- Δ radiator fill access plate
- Δ lube oil and cooling water drains pipes to exterior of the enclosure

#### Security and Safety

- Δ control panel viewing window in a lockable access door
- Δ emergency stop push button (red) mounted on enclosure interior
- Δ cooling fan and battery charging alternator fully guarded
- Δ exhaust silencing system totally enclosed for operator safety

#### Separated Fuel Tank inside Container and Accessories

- Δ capacity designed for 12 hours running.
- Δ at least 2mm thickness 100% steel adopted.
- Δ twice welding inside and outside of all the welding line
- Δ each fuel tank being tested against oil leakage on process
- Δ each fuel tank with our factory series number
- Δ fuel tank with necessary drain outlet
- Δ fuel tank with necessary fuel in and back outlet



WINTPOWER, reserves the right to modify the characteristics of its product at any time in order to incorporate the latest technological developments. The information contained in this document may therefore be changed without notice. For more technical data, contact [sales@wintpower.com](mailto:sales@wintpower.com)

**Manufacture in China: FUZHOU WINTPOWER TECHNOLOGY CO., LTD.**