

WINTPOWER®



WT-C550 Technical Data sheet



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

DIESEL GENERATOR

Powered by Cummins Engine & WINTPOWER 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:

- ΔComposed of Cummins diesel engine and WINTPOWER alternator
- ΔOil and fuel filter fitted,water separator
- ΔLube-oil drain valve fitted
- ΔElectric Starter Charge motor 24 VD.C
- ΔWater-cooled
- Δ baseskid fuel tank
- ΔAuto start
- ΔOptional soundproof and weatherproof canopy
- Δ 3 pole MCCB Delixi breaker/Optional ABB
- Δ Operation & Maintenance manual
- ΔSpecial 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

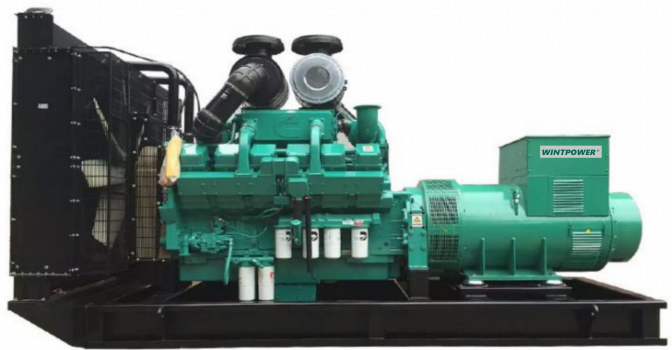
- Change load from 0-100%,within 1.0%(electric speed regulator),within 4.5%(mechanical speed regulator)

Frequency Undulation

- load from 0-100%,frequency undulation within 0.25%
- No load wire volts max undulation ration\ within 1.8%
- Three Phrased 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	WINTPOWER Alternator
	PRP	ESP	PRP	ESP		
WT-C550	500	550	400	440	KTA19G4	WT544D

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 KTA19G4	
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	107
Engine Speed/Frequency	RPM/Hz	1500/50HZ
Rated Output	kw/Bhp	448/600
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	557
Exhaust Gas flow	m3/min	84.3
Noise level	dBA@1m	≤ 80 dBA(Canopy type)

Genset Option Features

- ΔLow fuel level alarm shutdown
- ΔAutomatic Fuel Filling System
- ΔEngine oil feeding and drain pump
- ΔAuto Transfer 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
3280×1305×1950
- Enclosure type:L*W*H,mm
4500×1500×2200

Alternator Technical data

WINTPOWER WT544D

- Δ Brushless,self exciting
- Δ Class "H" insulation
- Δ Standard degree of protection is IP23
- Δ Self 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	MX341
Voltage Regulator NL-FL	$\pm 0.5\%$
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	SHUNT

Control Panel- ComAp AMF20

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

- a) Instruments:Analogue Volmeter,Hours Run Meter.Water pressure Meter.
- b) Controls:Emergency Stop Pushbutton,Volmeter Phase Selector Switch.
- c) Control module:Standard collocation ComAp AMF20

Main Features:

- Δ Automatic mains failure



ComAp AMF20

- 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 Mains simulation
- Δ Block heater control
- Δ Field adjustable parameters
- Δ Free MS-Windows Remote monitoring
- Δ LED displays
- Δ Configurable analogue inputs
- Δ I/O expansion capability

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

Separated Fuel Tank inside Container and Accessories

- Δ capacity designed for 8 hours running.
- Δ at least 3 mm 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

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