WINTPOWER®

WT-C550 Technical Data sheet

Professional Genset Manufacture On Your Side

FUZHOU WINTPOWER TECHNOLOGY CO., LTD.

WINTPOWER®

DIESEL GENERATOR

Powered by Cummins Engine & Leroy Somer Alternator

STANDARD SPECIFICATION

Three phase four wire,output voltage 415/240V,50HZ,between 0.8 lagging,protection capability according with the standard of NEMA1 and IP23.

General Features:

ΔComposed of Cummins diesel engine and Leroy Somer 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 maintanined within ±0.5%

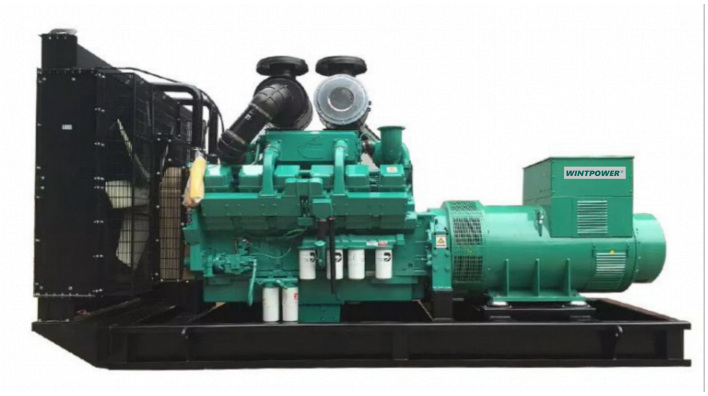
Between 0.8 and 1.0 lagging and unity

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 Phrase 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, 415/240V

Gensets model	Power output(KVA)		Power output (KW)		Cummins Engine Model	Leroy Somer Alternator
	PRP	ESP	PRP	ESP		
WT-C550	500	550	400	440	QSZ13-G3	TAL-A47-C

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 ≤1000m, Ambient temperature ≤ 40℃)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 maintainted within ±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 ℃,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 exhauset silencer with flexible piping.

Technical Data Sheet

Generating sets model:

415/240V,50Hz,1500 rpm

Engine Model:		Cummins QSZ13-G3
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	450/600
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	℃	557
Exhaust Gas flow	m3/min	84.3
Noise level	dBA@1m	≤80dBA(Canopy 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

3280×1305×1950

Enclosure type:L*W*H,mm

4500×1500×2200

Alternator Technical data

Leroy Somer TAL-A47-C

Δ Bruxhless,self exciting

Δ Class "H" insulation

Δ Standard degree of protection is IP23

Δ Self regulating

Δ With fan cooling

Δ Resist Humid grease

ΔAC excitation,roating rectification tube

Δ Stator grease insulation covered

ΔRotator 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 sillicon 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	R450
Voltage Regulator NL-FL	±0.5%
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	SHUNT

Control Panel- ComAp IC-NT

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 IC-NT

ComAp IC-NT

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 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
Δ Synchronizing function

Robust Corrosion Resustant Construction

Δ Black finish stainless stell lock and hinges

Δbody made from steelcomponents treated with polyester powder coating

Excellent Access for Maintenance

Δtwo large doors on each side
Δradiator fill access plate

Δlube oil and cooling water drains pipes to exterior of the enclosure

Security and Safety

Δcontrol panel viewing window in a lockable access door

Δemergency stop push buttom (red)mounted on enclosure interior

Δcooling fan and battery charging alternator fully guarded

Δexhaust silencing system totally enclosed for operator safely

Fuel Tank and Accessories

Δ capacity designed for 12 ours running.

Δ at least 3 mm thinkness 100% steel adoped.

Δ twice welding inside and outside of all the welding line

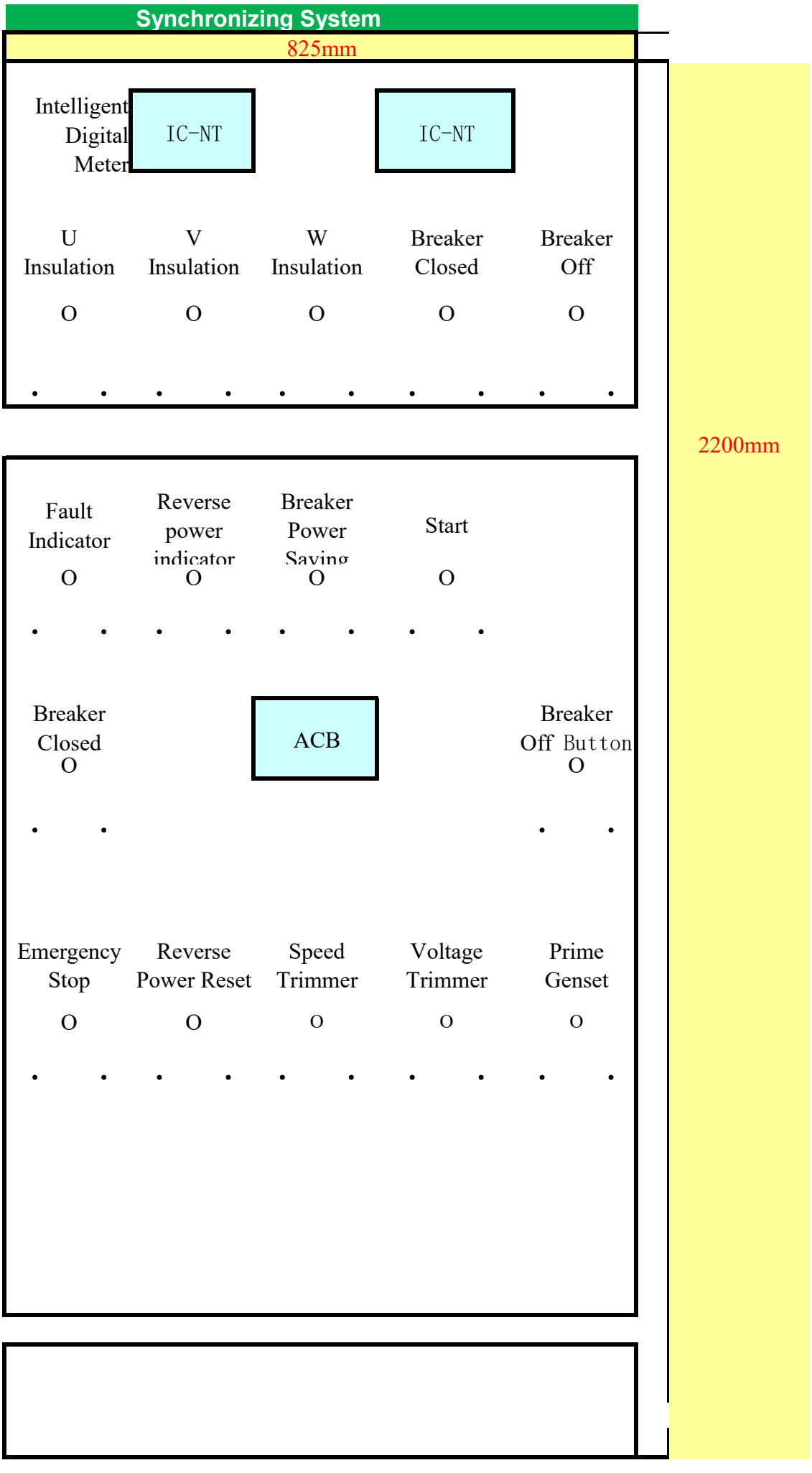
Δ each fuel tank being tested againist oil leakage on prcess

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

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


Synchronizing System
825mm
Intelligent Digital Meter
IC-NT
IC-NT
U Insulation
V Insulation
W Insulation
Breaker Closed
Breaker Off
O
O
O
O
O
2200mm
Fault Indicator
Reverse power indicator
Breaker Power Saving
Start
O
O
O
O
Breaker Closed
O
ACB
Breaker Off Button
O
Emergency Stop
Reverse Power Reset
Speed Trimmer
Voltage Trimmer
Prime Genset
O
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