WINTPOWER®

WT-C88 80KVA Technical Data sheet

Professional Genset Manufacture On Your Side

FUZHOU WINTPOWER TECHNOLOGY CO., LTD.

DIESEL GENERATOR

WINTPOWER®

Powered by Cummins Engine & Leroy Somer Alternator

STANDARD SPECIFICATION

Three phase four wire,output voltage 380/220V, 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 Water-cooled diesel engine

Δ 24V D.C Electric start system with Free Maintenance battery

Δ Base skid fuel tank, separated independent fuel tank as option

Δ Industrial/Residential silencers with flexible connects and elbow

Δ Anti-vibration mountings for engine and alternator

Δ Auto start & Manual Start, with AMF Function

Δ Optional soundproof and weatherproof canopy

Δ Standard 3 pole MCCB Delixi Circuit Breaker mounted

Δ Test report of generator, Set of drawings and O&M manuals

Δ Special 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 up to 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%

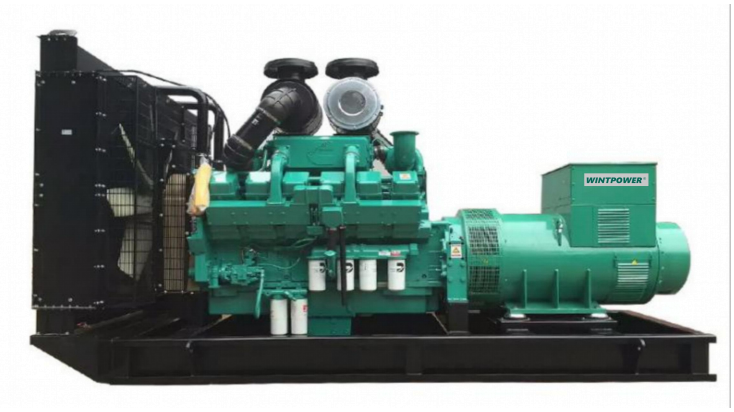
No load wire volts max undulation ration\ within 1.8%

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 380/220V

Genset model	Power output(KVA)		Power output (KW)		Cummins Engine Model	Leroy Somer Alternator
	Prime Power	Standby Power	Prime Power	Standby Power		
WT-C88	80	88	64	70	4BTA3.9G11	TAL-A44-C

Note:

(1) Available in the following voltages:108V-240V AND 380V-480V

(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.

WATER 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

380/220V,50Hz,1500 rpm

Engine Model:		Cummins 4BTA3.9G11
Type		4 cylinder,4 cycle diesel
Aspiration		Turbocharged
Bore/Stroke	mm	102X120
Compress the ratio		16.5:1
Cooling system		Water-cooled
100% Load Fuel Consumption	L/H	11.28
Engine Speed/Frequency	RPM/Hz	1500/50HZ
Rated Output	kw/Bhp	70/90
Exhaust air flow	(m3/min)	135.6
Coolant Capacity	L	28
Starting System		Electric 24 volt DC
Displacement	L	3.9
Lubricant system Capacity	L	11
Battery Volatge / Capacity		24VDC
Governing Type		Electrical (GAC governor)
Exhaust Gas Temperature	℃	475
Exhaust Gas flow	m3/min	9.96
Noise level	dBA@1m	≤75dBA(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
1870×900×1500 1080KG
Enclosure type:L*W*H,mm
2300×980×1585 1280KG

Alternator Technical data

Leroy Somer: TAL-A44-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
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 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	R150
Voltage Regulator NL-FL	±0.5%
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	SHUNT

Control Panel - DEEPSEA DSE4620

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 DEEPSEA DSE4620

DEEPSEA DSE4620

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

Robust Corrosion Resustant Construction

Δ Black finish stainless stell lock and hinges

Δ Body made from steelcomponents 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 buttom (red)mounted on enclosure interior

Δ cooling fan and battery charging alternator fully guarded

Δ exhaust silencing system totally enclosed for operator safely

Base Fuel Tank and Accessories

Δ capacity designed for 8 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: FUZHOU WINTPOWER TECHNOLOGY CO., LTD.