

WT-C138 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 400/220v, 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 Improve oil extraction pump
- 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 ABB breaker
- 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

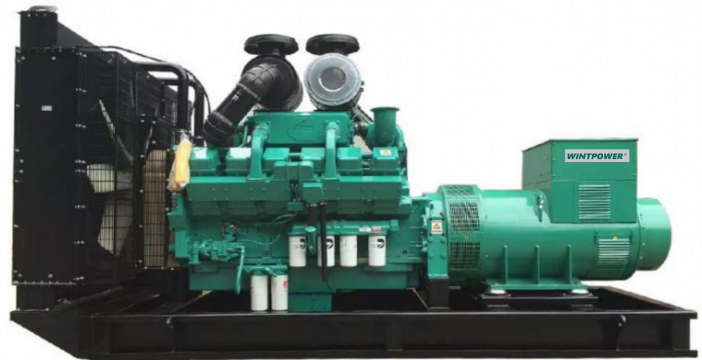
- Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation

- load from 0-100%, frequency undulation within 0.25%
- No load wire volts max undulation ration\ within 1.8%
- Three 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 400/220v

Gensets model	Power output(KVA)		Power output (KW)		Cummins Engine Model	Leroy Somer Alternator
	Prime Power	Standby Power	Prime Power	Standby Power		
WT-C138	125	138	100	110	6BTAA5.9G2	TAL-A44-E

Note:

(1) Available in the following voltages: 220V-240V AND 380V- 480V(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 exhaustet silencer with flexible piping.

Technical Data Sheet

Generating sets model:

400V,50Hz,1500 rpm

Engine Model:	Cummins 6BTAA5.9G2
Type	6 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 24
Engine Speed/Frequency	RPM/Hz 1800/60HZ
Rated Output	kw/bHP 90/120
Exhaust air flow	(m3/min) 176
Coolant Capacity	L 28
Starting System	Electric 24 volt DC
Displacement	L 5.9
Lubricant system Capacity	L 16.4
Battery Volatge / Capacity	24VDC
Governing Type	Electrical (GAC governor)
Exhaust Gas Temperature	°C 601
Exhaust Gas flow	m3/min 21
Noise level	dBA@7m ≤ 70 dBA(canopy type)

Genset Option Features

- △ Low fuel level alarm shutdown
- △ Automatic Fuel Filling System
- △ Engine oil feeding and drain pump
- △ Auto Transfer Switch(ATS)
- △ Parallel control panels
- △ Circuit Breaker MCCB & ACB
- △ Remote Control Panel
- △ weatherproof/soundproof Canopy
- △ Trailer type Gensets

QUALITY STANDARDS

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

Gensets Dimensions & Weight

Open type:L*W*H,mm
2240×980×1515
Enclosure type:L*W*H,mm
3010×980×1680

Alternator Technical data

Leroy somer TAL-A44-E

- △ Brushless,self exciting
- △ class "H" insulation
- △ Standard degree of protection is IP23
- △ self regulating
- △ With fan cooling
- △ Resist Humid grease
- △ AC excitation,roating rectification tube
- △ Stator grease insulation covered
- △ Rotator and exciation high polymer,Resist the corruption of oil and acid
- △ Rotator ballance is in accordance with BS5625 standard 12.5
- △ High-quality lubrication sealed long-time bearing
- △ 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	AVR R250
Voltage Regulator NL-FL	$\pm 0.5\%$
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	SHUNT

Control Panel - DEEPSEA6120

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

- a) Instruments: Analogue Voltmeter, Hours Run Meter, Water pressure Meter.
- b) Controls: Emergency Stop Pushbutton, Voltmeter Phase Selector Switch.
- c) Control module: Standard collocation is DSE6120 Auto start.



DSE6120

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
- 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 for **maritime environments**

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, **Oil extraction pump**

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

Base Fuel Tank and Accessories

- Δ capacity designed for **9 Hours** running.
- Δ **Log chamber in fuel pond at the top of the tank**
- Δ twice welding inside and outside of all the welding line
- Δ **Fuel siphon have mesh filter**
- Δ **Tank of reinforced fuel, type rent, with rails for forklift**
- Δ fuel tank with necessary drain outlet
- Δ **fuel charge system from outside**



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: FUZHOU WINTPOWER TECHNOLOGY CO., LTD.