



# WT-I22 20KVA Technical Data sheet









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

# **DIESEL GENERATOR**



# Powered by ISUZU Engine & Stamford 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 ISUZU diesel engine and Stamford 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

 $\Delta$  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)		ISUZU Engine	Stamford
	Prime Power	Standby Power	Prime Power	Standby Power	Model	Alternator
WT-I22	20	22	16	18	JE493DB-04	PI144D

#### 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°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 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  $^{\circ}$ 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 exhauset silencer with flexible piping.

#### Technical Data Sheet 380/220V,50Hz,1500 rpm **Genset Option Features** ISUZU JE493DB-04 **Engine Model:** ΔLow fuel level alarm shutdown Type 4 cylinder,4 cycle diesel ΔAutomatic Fuel Filling System Aspiration Natural ΔEngine oil feeding and drain pump Bore/Stroke mm 93×102 ΔAuto Transfter Switch( ATS) Compress the ratio 18.2:1 ΔParallel control panels Water-cooled Cooling system ΔCircuit Breaker MCCB & ACB 100% Load Fuel Consumption L/H 4.5 ΔRemote Control Panel RPM/Hz Engine Speed/Frequency 1500/50HZ ΔWeatherproof/soundproof Canopy Rated Output kw/Bhp 24/32 ΔTrailer type Gensets Exhaust air flow (m3/min) 96 **QUALITY STANDARDS** L 4.5 Coolant Capacity ISO9001:2020, ISO14001, ISO3046 Starting System Electric 12 volt DC ISO8528 BS4999 Displacement L 2.8 BS5514,AS1359,ICE34 Lubricant system Capacity L 4.5 CE Compliance Battery Volatge / Capacity 12VDC **Gensets Dimensions & Weight** Governing Type Mechnical Open type:L\*W\*H,mm 500 **Exhaust Gas Temperature** $^{\circ}$ C 1550×800×1100 700KG **Exhaust Gas flow** m3/min 5.24 Enclosure type:L\*W\*H,mm Noise level dBA@1m 2000\*900\*1050 880KG ≤70dBA(canopy type)

# **Alternator Technical data**

Stam	forc	l: P	l 14	I4D
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Stamioru: Pi 144D
$\Delta$ Bruxhless,self exciting
Δ Class "H" insulation
$\Delta$ Standard degree of protection is IP23
$\Delta$ Self regulating
$\Delta$ With fan cooling
$\Delta$ Resist Humid grease
$\Delta$ AC excitation,roating rectification tube
$\Delta$ Stator grease insulation covered
$\Delta$ Rotator and exciation high polymer,Resist the corruption of oil and acid
$\Delta$ Rotator ballance is in accordance with BS5625 standard 12.5
$\Delta$ High-quality lubrication sealed long-time bearing
$\Delta$ 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	AS440		
Voltage Regulator NL-FL	±0.5%		
Underspeed Protection	Standard		
Overexcitation Protection	IP23		
TIF (1960 Weightings)	<50		
Exciation System	PMG		

# **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

 $\Delta$  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

 $\Delta$  lube oil and cooling water drains pipes to exterior of the enclosure

#### **Security and Safety**

 $\Delta$  control panel viewing window in a lockable access door  $\Delta$  emergency stop push buttom (red)mounted on enclosure interior

 $\Delta$  cooling fan and battery charging alternator fully guarded  $\Delta$  exhaust silencing system totally enclosed for operator safely

#### **Base Fuel Tank and Accessories**

 $\Delta$  capacity designed for 8 ours running.

Δ at least 3 mm thinkness 100% steel adoped.

 $\Delta$  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





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