

## WT-M1500 1500KVA/1200KW Technical Data sheet



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

# DIESEL GENERATOR

## Powered by Mitsubishi Engine

### STANDARD SPECIFICATION

Three phase four wire,output voltage 400V/230V,50HZ,between 0.8 lagging,protection capability according with the standard of NAME1 and IP23.

#### General Features:

- ΔComposed of **Mitsubishi** 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
- Δ8-hours operation base tank
- ΔAuto start
- ΔOptional soundproof and weatherproof canopy
- Δ3 pole MCCB Delixi breaker/Optional ABB
- ΔOperation & 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 Phase 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	Leroy somer Alternator
	PRP	ESP	PRP	ESP		
<b>WT-M2250</b>	<b>2000</b>	<b>2250</b>	<b>1600</b>	<b>1800</b>	<b>S16R-PTAA2-C</b>	<b>LSA52.3S6</b>

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.There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

## 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:	Mitsubishi S16R-PTAA2-C
Type	16-Vcylinder,4 cycle diesel
Aspiration	Turbocharged inter-cooled
Bore/Stroke	mm 170X180
Compress the ratio	14.0: 1
Cooling system	Water-cooled
100% Load Fuel Consumption	g/kwh 217
Engine Speed/Frequency	RPM/Hz 1500/50HZ
Rated Output	kw/bHP 1687/2258
Exhaust air flow	(m3/min) 152
Coolant Capacity	L 170
Starting System	Electric 24 volt DC
Displacement	L 65.37
Lubricant system Capacity	L 230
Battery Volatge / Capacity	24VDC
Governing Type	Electrical (GAC governor)
Exhaust Gas Temperature	°C 98
Exhaust Gas flow	m3/min 403
Noise level	dBa@7m $\leq 80$ 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

- ISO9001:2016, ISO14001, ISO3046
- ISO8528 BS4999
- BS5514,AS1359,ICE34
- CE Compliance

### Gensets Dimensions & Weight

- Open type:L\*W\*H,mm  
5875×2392×3453 16500KG
- 40HQ Containerized Type  
12000×2500×3000 19800KG

## Alternator Technical data

### Leroy somer

- 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	AVR R250
Voltage Regulator NL-FL	$\pm 0.5\%$
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	AREP

## Control Panel - DEEPSEA7320

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 DSE7320 Auto start.



DSE7320

### 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

## Sound Attenuated Enclosure/Option

### 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 safety



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Manufacture: FUZHOU WINTPOWER TECHNOLOGY CO., LTD.