

## WT-M715 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:

- Δ Composed of Mitsubishi diesel engine and WINTPOWER alternator
- Δ Oil and fuel filter fitted, water separator
- Δ Lube-oil drain valve fitted
- Δ Electric Starter Charge motor 24 V.D.C
- Δ Water-cooled
- Δ 8-hours operation base tank
- Δ Auto start
- Δ Optional soundproof and weatherproof canopy
- Δ 3 pole MCCB Delixi breaker/Optional ABB
- 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

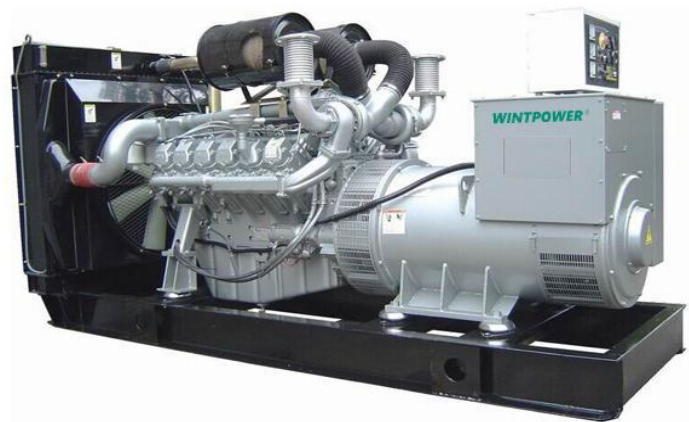
- Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

#### Frequency Undulation

- load from 0-100%, frequency undulation within 0.25%
- No load wire volts max undulation ration\ within 1.8%
- Three Pharse 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	WINTPOWER Alternator
	PRP	ESP	PRP	ESP		
<b>WT-M715</b>	<b>650</b>	<b>715</b>	<b>520</b>	<b>572</b>	<b>S6R2-PTA-C</b>	<b>WT544F</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  $45\text{ }^{\circ}\text{C}$ ,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

		Genset Option Features	
Engine Model:	Mitsubishi <b>S6R2-PTA-C</b>	ΔLow fuel level alarm shutdown	
Type	6 cylinder,4 cycle diesel	ΔAutomatic Fuel Filling System	
Aspiration	Turbocharged inter-cooled	ΔEngine oil feeding and drain pump	
Bore/Stroke	mm 170X220	ΔAuto Transfter Switch( ATS)	
Compress the ratio	14.1 : 1	ΔParallel control panels	
Cooling system	Water-cooled	ΔCircuit Breaker MCCB & ACB	
100% Load Fuel Consumption	g/kwh 206	ΔRemote Control Panel	
Engine Speed/Frequency	RPM/Hz 1500/50HZ	Δweatherproof/soundproof Canopy	
Rated Output	kw/bHP 575/771	ΔTrailer type Gensets	
Exhaust air flow	(m3/min) 47	<b>QUALITY STANDARDS</b>	
Coolant Capacity	L 55	ISO9001:2020, ISO14001, ISO3046	
Starting System	Electric 24 volt DC	ISO8528 BS4999	
Displacement	L 29.96	BS5514,AS1359,ICE34	
Lubricant system Capacity	L 94	CE Compliance	
Battery Volatge / Capacity	24VDC	<b>Gensets Dimensions &amp; Weight</b>	
Governing Type	Electrical (GAC governor)	Open type:L*W*H,mm	
Exhaust Gas Temperature	$^{\circ}\text{C}$ 98	4023×1810×1953	
Exhaust Gas flow	m3/min 125	Enclosure type:L*W*H,mm	
Noise level	dba@7m $\leq 70\text{dba}(\text{canopy type})$	5200x2000x2200	

## Alternator Technical data

**WINTPOWER WT544F**

Δ Bruxhless,self exciting

Δclass "H" insulation

Δ Standard degree of protection is IP23

Δself 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 silicon 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	$\pm 0.5\%$
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	PMG

## Control Panel -Comap

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 Comap AMF20 with AMF.



Control module Comap AMF 20

### Main Features:

- Δ Automatic or manual start/stop of the genset
- Δ 3 phase AMF function
- Δ configuration analog inputs
- Δ Configurable programmable binary inputs and outputs
- Δ Warm-up and cooling functions
- Δ Battery voltage, engine speed measurement
- Δ Modem communication support (IL-AMF25 only)
- Δ RS232 interface
- Δ Support of engines equipped with Electronic Control Unit (J1939 interface)
- Δ Graphic back-lit LCD display
- Δ Comprehensive diagnostic messages; SPN/FMI codes; KWP2000 Support
- Δ 6 LED indicators
- Δ Sealed to IP65
- Δ Generator C.B and Mains C.B control with feedback and return timer
- Δ AMF Function

## Sound Attenuated Enclosure/Fuel Tank

### 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

### Separated Fuel Tank inside Container and Accessories

- Δ capacity designed for **8 hours running**.
- Δ at least 3 mm thickness 100% steel adopted.
- Δ twice welding inside and outside of all the welding line
- Δ each fuel tank being tested against oil leakage on process
- 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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