

WT-M1100 1100KVA Technical Data sheet



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

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 WINTPOWER alternator
- ΔOil and fuel filter fitted,water separator
- ΔLube-oil drain valve fitted
- ΔElectric Starter Charge motor 24 VD.C
- ΔWater-cooled
- Δ6-8 hours operation base tank
- ΔAuto start
- ΔOptional 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

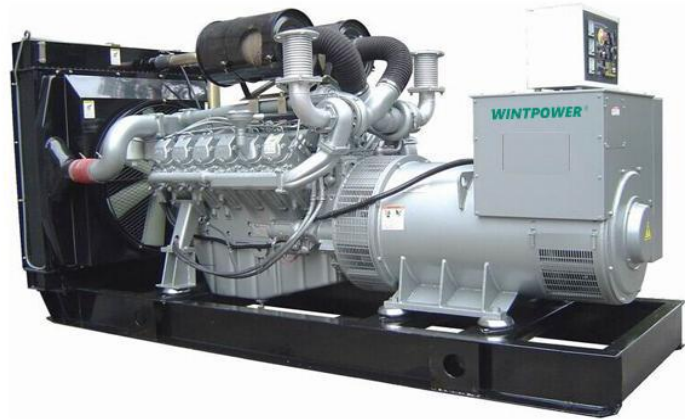
- Change load from 0-100%,within 1.0%(electric speed regulator),within 4.5%(mechanical speed regulator)

Frequency Undulation

- load from 0-100%,frequency undulation within 0.25%
- No load wire volts max undulation ration\ within 1.8%
- Three Phrased 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		
WT-M1100	1000	1100	800	900	S12H-PTA	WT634E

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 $\leq 1000\text{m}$, Ambient temperature $\leq 40^\circ\text{C}$) 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, screen 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 cooling fan complete with protection guards, designed to cool engine at specified output in air temperatures up to 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

400V, 50Hz, 1500 rpm

Engine Model:	Mitsubishi S12H-PTA
Type	12 V cylinder, 4 cycle diesel
Aspiration	Turbocharged inter-cooled
Bore/Stroke mm	150X175
Compress the ratio	14.0 : 1
Cooling system	Water-cooled
100% Load Fuel Consumption g/kwh	154
Engine Speed/Frequency RPM/Hz	1500/50HZ
Rated Output bHP/kw	1247/930
Exhaust air flow (m3/min)	89
Coolant Capacity L	100
Starting System	Electric 24 volt DC
Displacement L	37.11
Lubricant system Capacity L	180
Battery Volatge / Capacity	24VDC
Governing Type	Electrical (GAC governor)
Exhaust Gas Temperature $^\circ\text{C}$	98
Exhaust Gas flow m3/min	235
Noise level dBA@7m	$\leq 85\text{dBA}$ (silent type)

Genset Option Features

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

QUALITY STANDARDS

ISO9001:2020, ISO14001, ISO304
 ISO8528 BS4999
 BS5514, AS1359, ICE34
 CE Compliance

Gensets Dimensions &

Open type: L*W*H, mm
 4650×2100×2600
 Enclosure type: L*W*H, mm
 40FT Container

Alternator Technical data

WINTPOWER WT634E

- △ Brushless, self exciting
- △ class "H" insulation
- △ Standard degree of protection is IP23
- △ self regulating with PMG
- △ With fan cooling
- △ Resist Humid grease
- △ AC excitation, roating rectification tube
- △ Stator grease insulation covered
- △ Rotator and excitation high polymer, Resist the corruption of oil and acid
- △ Rotator ballance is in accordance with BS5625

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	MX321
Voltage Regulator NL-FL	$\pm 0.5\%$
Underspeed Protection	Standard

standard 12.5

- Δ High-quality lubrication sealed long-time bearing
- Δ Rotator silicon steel close tight

Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Excitation System	AREP

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/Optional

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
- Δ exhaust silencing system totally enclosed for operator safety



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.