

WINTPOWER®



WT-M1500 1500KVA/1200KW Technical Data sheet



STAMFORD
power generation



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 Stamford 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

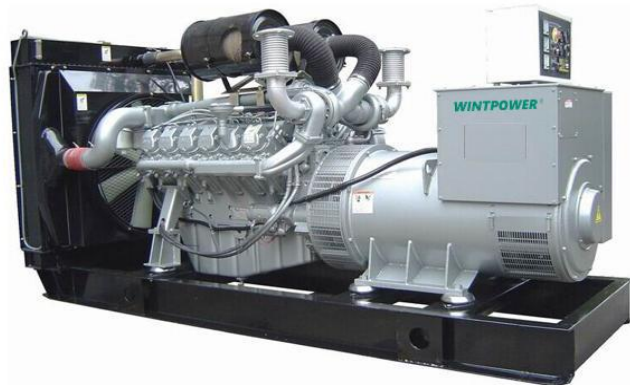
- Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation

- load from 0-100%, frequency undulation within 0.25%
- No load wire volts max undulation ration\ within 1.8%
- Three 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, 400/230V

Gensets model	Power output(KVA)		Power output (KW)		Cummins Engine Model	Stamford Alternator
	PRP	ESP	PRP	ESP		
WT-M1500	1375	1500	1100	1200	S12R-PTA2-C	PI734B

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:

400/230V,50Hz,1500 rpm

Engine Model:	Mitsubishi S12R-PTA2-C
Type	12-Vcylinder,4 cycle diesel
Aspiration	Turbocharged inter-cooled
Bore/Stroke	mm 170X180
Compress the ratio	13.5: 1
Cooling system	Water-cooled
100% Load Fuel Consumption	g/kwh 197
Engine Speed/Frequency	RPM/Hz 1500/50HZ
Rated Output	kw/bHP 1165/1561
Exhaust air flow	(m3/min) 96
Coolant Capacity	L 125
Starting System	Electric 24 volt DC
Displacement	L 49.03
Lubricant system Capacity	L 180
Battery Volatge / Capacity	24VDC
Governing Type	Electrical (GAC governor)
Exhaust Gas Temperature	°C 98
Exhaust Gas flow	m3/min 253
Noise level	dba@7m ≤ 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
4595*2156*2700
- Silent type(option) L*W*H,mm
40HQ Container

Alternator Technical data

Stamford PI734B

- 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 silikon 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 MX321
Voltage Regulator NL-FL	$\pm 0.5\%$
Underspeed Protection	Standard
Overexcitation Protection	IP23
TIF (1960 Weightings)	<50
Exciation System	PMG

Control Panel - DEEPSEA8610

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 DSE8610 Auto start.



DSE8610

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 Synchronizing Function capability

Sound Attenuated Enclosure/Synchronizing Panel and ATS-Optional

Robust Corrosion Resistant Construction

- Δ black finish stainless steel lock and hinges
- Δ body made from steel components treated with polyester powder coating

Synchronizing System

- Δ each unit generator will be equipped
- Δ international standard GAC Cabinet
- Δ I adopt original ComAp Controller IC-NT
- Δ busbar included inside panel
- Δ all the necessary accessories included

Excellent Access for Maintenance

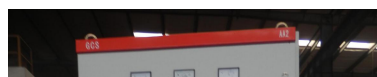
- Δ two large doors on each side
- Δ radiator fill access plate
- Δ lube oil and cooling water drains pipe to exterior of the enclosure

ATS (automatic transfer switch) system-optional

- Δ Complete handy and auto switch of city power and inside power.
- Δ Display current, voltage of city power and inside power.
- Δ auto mode or manual mode function combined
- Δ All the necessary accessories included

Security and Safety

- Δ control panel viewing window in a lockable access door



- Δ emergency stop push button mounted on enclosure
- Δ cooling fan and battery charging alternator fully
- Δ exhaust silencing system totally enclosed for operator safety

Separated Fuel Tank inside Container and Accessories-Option

- Δ capacity designed for 12 hours running.
- Δ at least 2mm 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
- 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



ATS (automatic transfer switch) system



ISO
9001
QUALITY
ASSURANCE

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

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