



# Diesel Generator Sets Powered by German MTU



# \* The engine and alternator are close coupled by means of an SAE flange. A full torsional analysis has been carried out to guarantee no harmful vibration will occur. Engine with radiator and alternator are on common spraying powder mounting.

\*\* Anti-vibration pads are affixed between engine alternator feet and the base frame. Thus ensuring complete vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.

\*\* For drability and corrosion resistance, all iron and steel surfaces of canopy fabrications have been treated for coating by grit blast cleaning. Then covered by special three layers painting which provides an excellent corrosion resistant surface.

# WARRANTY

ASSEMBLY

\*\* YICHEONG Company provides one-source responsibility for the generator set and accessories. Each YICHEONG generating set has been got through 2 hours Load test for running 0% ,25%,50%,75%,100% and 110% load, all protective devices and control function are simulated and checked before despatch.

\* Engine and Alternator are guaranted for a period of 12 months from the date of commissioning or 18 months from shipping, whichever occurs first.

\* Convenience for operation and maintenance, backed by MTU global service network.

Specifications may change without notice.

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http://www.ycgenerator.com



# **GLOBAL STANDARD**

# 3P4W, 50Hz@1500RPM, 400/230V

(380/220V and 415/240V are for optional)

# 60hz, 1800RPM, 208V, 480V will be different technical data.

## **SCOPE SUPPLY**

- Germany MTU Diesel Engine with radiator.
- Reliable alternator: Leroy Somer, Stamford, ENGGA.
- Heavy duty steel skid with vibration-damping.
- Base service fuel tank inside skid(up to 800KW)
- Lead acid batteris with cable for starter.
- Industrial silencer & flexible exhaust below.
- Mounted control panel: Digital auto controller.

# **ENGINE (Industrial Powerful)**

The history of MTU can be traced back to the 18th century of mechanical times. Following its good traditions, MTU comes out top among manufacturers of engines in the world owing to its unexampled advanced technology. The high quality of MTU engines is identical with the concept of reliably, advanced technology, high-class performance, environmental consciousness and long service life which is put forward by Yicheong.

## **Benefit:**

- Top running capacity with unexampled advanced technology.
- Low fuel consumption. PLD with electrical injection system.
- Engines meet all relevant exhaust emission standards.
- High performance, long maintenance intervals & service life.

# **ADEC**(Advanced Diesel Engine Controller): **Multi-Functions:**

- Controlling engine,
- Monitoring operating status,
- Controlling the injection quality and engine speed,
- Indication of faulty operation (Display, SAM, Dialog Unit),
- Communication with other electronic components via CAN, with ESCM system (Engine Site Condition Management).



# **Benefits:**

- \* Reliable service working, powerful, attractive appearance.
- ※ Low running cost (diesel fuel & oil, maintenance)
- \* Easy for commissioning, operation and maintenace.

# **CONTROL SYSTEM AND PROTECTION**

\* Controllers are available for all applications. It contains Deep Sea, ComAp or other famous brands. According to their different functions, the control systems can be specified into key start contriler model, automatic start control model and PCRC three remote control systems.See controller features inside.

#### CRITERION

\* ISO8528, GB/T2820, ISO3046, BS4999, BS5514, BS5000

- \* EN12601: 2001, EN60034-22: 1997, EN60204-1: 2006
- \* ISO9001: 2000, ISO14001: 2004, SGS, TLC



# ALTERNATOR (Reliable)

## Voltage regulation

Voltage regulation maintained with in  $\pm 0.5\%$  as follow:

- Power factor between 0.8-1.0 lagging.
- From no load to full load, any steady load.
- Speed droop variation under 5%.
- **Frequency/Speed undulation**
- 0-100% load, Frequency/Speed Droop Ratio <5%.
- 25-100% load, any steady load undulation <0.25%.

#### Effect factor of telecom

• TIF(MAMG1-22)<50; THF(BS EN60034) < 2%

The 2/3 pitch design avoids excessive neutral currents. With the 2/3 pitch and carefully selected pole and tooth designs, ensures very low waveform distortion.

Brushless alternator with pilot exciter for excellent load response.

Class H insulation, easy parallelling with mains or other generators, standard 2/3 pitch stator windings avoid excessive neutral currents.

Backed by worldwide service network.

Specifications may change without notice.

#### http://www.ycgenerator.com

# **CONTROL SYSTEM**



1.Standard: MRS-16 (Czech ComAp		Contro		
Providing the standard functions as follow		Intellitie une la conference		
* Start/Stop controller, Emergency stop p	ushbutton			
※ Ampere/Volt meter and selector switch gauge/Oil pressure gauge/Hour counter				
* Alarm: Over speed, High Engine Temp	erature, Low Oil Pressure.	1 nd cause		
* Protection System: Over speed, High E	MRS-16			
Emergency Stop. And the other protecti				
2.Option:Deep Sea DES7320 Digital	Auto Start (AMF)			
(Option assembled with the ATS)	A DEPENDENCE DECE			
It can carry out auto-switching between th				
Functions:		DSE		
* Automatic Start/Stop, Engine monitori				
× 3 start attempts failure and Automatic				
* Parameters display(V/A/Hz/Hour),Run	6			
* Charge alternator exciting and Charge				
× Settings can be adjustable via key butto	•			
Shutdown:	Warning:	DSE7320		
※ Loss of Speed Signal	※ Alternator Under/Over Voltage	DSE7520		
※ Alternator Under/Over Voltage	※ Alternator Under/Over Frequency			
※ Alternator Under/Over Frequency	※ Mains Under/Over Voltage			
※ Mains Under/Over Voltage	※ Mains Under/Over Frequency	B5232		
※ Mains Under/Over Frequency	* Under/Over Speed			
※ Under/Over Speed	* Low Oil Pressure Pre-Alarm			
* Low Oil Pressure	* High Engine Temp. Pre-Alarm			
※ High Engine Temperature	% High/Low Battery Voltage			
	* Over-current	Paralleling System		
	※ Periodic maintenance	i aranening System		

\* Periodic maintenance

# **Optional Parts:**

Fuel system	Canony	Alternator	
	1 51 5	<ul> <li>AVR PMG with regulator</li> <li>Anti-damp/anti-corrosion treatment</li> </ul>	
Control Panel	Cooling System	Engine	
1 C	-	<ul> <li>Heater 2KW&amp;4KW (coolant &amp; Oil)</li> <li>Mains Electricity Battery Charger board</li> </ul>	







Circuit BreakerParalleling/synchronizing SystemASpecifications may change without notice.3/4



Soundproof canopy http://www.ycgenerator.com



# 380-415V, 1500RPM, 50HZ, 3phase 4 wire,

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Genset	Prime	e power	Standb	y power	MTU Engine Model	Alternator model	Dimension	
Model	KW	KVA	KW	KVA	WITO Eligine Woder	Anternator moder	(L*W*H mm)	
JM220G	220	275	242	303	6R1600G10F	LSA46.2L9	2800*1150*1450	
JM250G	250	313	275	344	6R1600G20F	LSA46.2VL12	2900*1150*1450	
JM300G	300	375	330	413	8V1600G10F	LSA47.2VS2	2980*1150*1450	
JM320G	320	400	352	440	8V1600G20F	LSA47.2S4	3040*1350*1760	
JM360G	360	450	400	500	10V1600G10F	LSA47.2S5	3220*1350*1760	
JM400G	400	500	440	550	10V1600G20F	LSA47.2M7	3320*1350*1760	
JM480G	480	600	528	660	12V1600G10F	LSA47.2L9	3400*1350*1760	
JM520G	520	650	572	715	12V1600G20F	LSA49.1S4	3400*1350*1760	
JM520G	520	650	572	715	12V2000G25	LSA49.1S4	4200*1600*2250	
JM640G	640	800	704	880	12V2000G65	LSA49.1M75	4200*1600*2250	
JM728G	728	910	800	1000	16V2000G25	LSA49.1L10	4500*1800*2300	
JM800G	800	1000	880	1100	16V2000G65	LSA50.2S3	4500*1800*2300	
JM908G	908	1135	1000	1250	18V2000G65	LSA50.2M6	4700*1900*2350	
JM1000G	1000	1250	1100	1375	12V4000G21R	LSA50.2M6	6150*2150*2400	
JM1120G	1120	1400	1232	1540	12V4000G23R	LSA50.2L8	6150*2150*2400	
JM1300G	1300	1625	1420	1775	12V4000G23	LSA50.2V10	6200*2150*2400	
JM1450G	1450	1812	1600	2000	12V4000G63	LSA51.2S55	6200*2150*2400	
JM1640G	1640	2050	1800	2250	16V4000G23	LSA51.2L70	6500*2600*2800	
JM1800G	1800	2250	2000	2500	16V4000G63	LSA51.2VL85	6600*2600*2800	
JM2000G	2000	2500	2200	2750	20V4000G23	LSA51.2VL90	7600*2600*3000	
JM2200G	2200	2750	2400	3000	20V4000G63	EG560S-2200N	7600*2600*3000	
JM2400G	2400	3000	2640	3300	20V4000G63L	EG560M-2400N	7600*2600*3000	
480V, 1800RPM, 60HZ, 3phase 4 wire,								
JM640G6	640	800	704	880	12V2000G45	LSA49.1 S4	4200*1650*2280	
JM730G6	730	913	803	1004	12V2000G85	LSA49.1 M75	4200*1650*2280	
JM800G6	800	1000	880	1100	16V2000G45	LSA49.1 L9	4500*2000*2300	
JM900G6	900	1125	990	1238	16V2000G85	HCI634H	4500*2000*2300	
JM1040G6	1040	1300	1144	1430	18V2000G85	LSA50.2 S4	4750*2000*2380	
JM1344G6	1344	1680	1480	1850	12V4000G43	LSA50.2 L7	6150*2150*2400	
JM1600G6	1600	2000	1760	2200	12V4000G83	LSA50.2 VL10	6150*2150*2400	

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JM1800G6

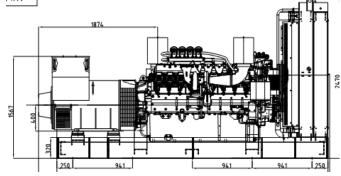
JM2000G6

JM2200G6

1800

2000

2200



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**PI734E** 

LSA51.2 L70

**PI734G** 

2250

2500

2750

6500\*2600\*2500

6550\*2600\*2500

7600\*2600\*3000

16V4000G43

16V4000G83

20V4000G43

2475

2750

3025

1980

2200

2420