

MTU Diesel Generator Set

Power System Engineer



ZBM3781



Performance

- Carefully selected components
- Accurately developed and tested configuration

Quality Control

- International standard testing procedure
- Professional manufacture team

Service efficiency

- Humanization design and improvements
- Superior accessibility to all service points

Increased transport efficiency

- Compact and safe concept
- Sturdy design

Superior resale value

- Designed and built to last



Technical Data

Model		ZBM3781	
Prime power	kw/kva	2750/3438	
Standby power	kw/kva	3025/3781	
Rated speed	r/min	1800	
Standard Voltage	V	480	
Available Voltages	V	480/277-440/254-220/127-2	208/120
Rated power factor		0.8	

Engine		CONTINUOUS	STANDBY
Rated Output	kW	3010	3311
Manufacturer		MTU	
Model		20V4000G83	3L
No. of Cylindirs and Build		4 Cycle;12V	Cylinder Diesel
Aspiration and Cooling		Exhaust turb	o charger and Air oling;
Bore/Stroke	mm	170X210	
Compress the ratio		16.5:1	
Cooling system		Water-cooled	d
Engine Speed/Frequency	rpm/Hz	1800/60HZ	
Coolant Capacity	L	795	
Starting System		Electric 24 vo	olt DC
Displacement	L	95.4	
Lubricant system Capacity	L	390	
Battery Volatge / Capacity		24VDC	
Governing Type	Туре	Electronic engine management system "ADEC"	
Air Filter	Туре	Dry	
Fuel Consumption	Load	100% 75%	50% 25%
	L/h	757 95.4	391 222

ALTERNATOR BRAND		LEROY SOMER STAMI	FORD
Model		LVS1804	W2
Exciter System		Self-excited, brushless	
Poles	Num	4	
Cooling Fan		Cast alloy aluminum	
Bearing		Single,double shielded	
Windings		100% copper	
Connection Type		Reconnectable	
Insulation Type	Class	Class H	
Pitch		2/3	
Amortisseur Winding		Full	
Voltage Regulator		A.V.R. (Electronic)	
Steady Voltage Precision		± 1%	
Underspeed Protection		Standard	
Overexcitation Protection		IP23	
TIF (1960 Weightings)		<50	

Dimension		
Length*width*height	mm	6800*2800*3000
Net weight	kg	19500

Control Panel-SMARTGEN 6110/6120

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

a)Instruments:Analogue Volmeter,Hours Run Meter.Water pressure Meter.

b)Controls:Emergency Stop Pushbutton,Volmeter Phase Selector Switch

c)Control module:Standard collocation is smartgen Auto start with AMF.



Main Features:

ΔAutomatic mains failure

ΔEngine control,Generator protection

ΔBuilt in alarms and warnings

ΔRemote Start operation available

ΔFuel pump control

ΔMains simulation

ΔBlock heater control

ΔField adjustable parameters

ΔFree MS-Windows Remote monitoring

ΔLED displays

ΔConfigurable analogue inputs

ΔI/O expansion capability

Protection Circuits	Instruments
WARNING	ENGINE
Battery charge failure	Engine speed
Low battery voltage	Oil pressure
SHUT DOWNS	Coolant temperature
Fail to start	Run time
Emergency stop	
Low oil pressure	Battery volts
High engine temperature	TOR
Over /Under speed	Voltage (L-N)
Under/over generator	Current (L1-L2-L3)
frequency Failed to reach	Frequency
loading voltage Electrical trip	Mains



This generator does comply with EU requirements related to working environment, regulations concerning safety and emissions as well with the outdoor noise directive 2000/14/EC.

Generator over current

Voltage (L-L, L-N)