

YMW-30T5 powered by:

DESIGN SPECIFICATIONS

√High quality,reliable,long life and complete power unit.

√compact design. √Easy start and maintenance possibility.

VEvery generating set is subject to a comprehensive test programme which includes full load testing and checking and proving of all control and safety shut down functions

'Fully engineered with a wide range of options and accessories:Electrical,mechanical, soundproof canopy and mobile units

4TNV98-GGECC YANMAR

Diesel Genset Features		P.F=0.8 3P	hase
Generating Set Performance		50H	lz
Service		Prime Power	Standby Power
Rated output	kVA	30	33
Active power output **	kW	24	26.4
Rated Speed	r.p.m	1500r	pm
Standard Voltage	V	400/2	30
Voltage available	V	380/220 - 4	416/240

Perforemance data refer to Standard Reference Conditions of ISO 8528:+25°C,100m ALT,relative humidity 30%

Power reduction acc.to DIN ISO 3046 Standard values: Above 100m ALT approx.1% per 100m. Above 25% (77%) approx.4% per 10% (50%).

Prime Mover Performance	1500 r.	p.m	
SERVICE		Prime Power	Standby Power
Rated output	KW	30.7	34.1
Manufacturer		Yan	mar
Model		4TNV98-	-GGECC
4 stroke Diesel Engine - Injection type		Dir	ect
Aspiration type		Natu	rally
Cylinders,number and arrangement		4 -	- L
Bore×Stroke	mm	98x	110
Total Displacement	L	3.3	19
Cooling system		Wa	ater
Lube oil specifications		API class CD, S	AE grade 10W30
Compression ratio		18.	5:1
Specific fuel consumption(P.R.P)	L/h	8.	44
Specific oil consumption(at full load)	g/kWh	0.1	27
Total coolant capacity	L	9)
Speed governor	Туре	Mech	anical

①P.R.P. Prime Power - ISO 8528:PRIME POWER is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power.10% overload available for governing purposes only.

@Max Standby power -ISO 3046 Fuel Stop power:Power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year, 90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.

Synchronous Generator		1500 r.p.m
Manufacturer		Guericke
Model		GRK24G4
Rated output	KW	24
Poles	num	4
Winding Conections (standard)		Star-serie
Insulation	class	Н
Enclosure(according to IEC-34-5)		IP23
Phases		3+N
Votage Regulaors		A.V.R (SX460)
Steady voltage precision		within±1.5% from no load to full loading with cosΦ=0.8-1.0

^{**}Alternator used by GTL Gensets meet the requirements of following Standard:BS5000,VDE0530,NEMA MG1-32,IEC34,CA C22.2-100,AS1359

Generationg Set Installation Data		1500 r.p.m
EXHAUST SYSTEM		
Exhaust Gas Temperature at full load	т	550
Exhaust Gas Temperature at full load	°F	1022
Exhaust gas flow	L/s	142
Maximum allowed back pressure	mm H2O	1300
AIR REQUIREMENT		
Air requirement for combustion at 100% load/rated speed	L/s	37.33
	ft3/min(CFM)	79.1
ELECTRIC STARTING SYSTEM		
Starting motor output	kw	2.3
Recommended battery	ah	92
Auxiliary voltage	V	12
LUBRICATION SYSTEM		
Lube oil system including sump,filters,etc.	L	10.5

Standard Control Panel -EPmaster EPM4

Protection, distribution, and automatic control panel, which starts the generator set when it detects a mains failure and stops it when the mains is restored with the control unit EPM4. It also starts and stops the group manually via a pushbutton or remote start-up by contact.

It has the following:

① Emergency stop push button

② Protections:

Circuit breaker (preheating resist.) 2P (16 A)

Protection fuses for control module

3 Voltage&speed trimmers

④ Battery charger

⑤ DC switch

Working Lamp switch

② Distribution:Direct output of the circuit breaker

® EPM4&EPM4+(cloud monitoring communication 4G)control and protection centre

the lact.

Faceplate

Controller

Internal Structure

GCB

Emergency Stop Button

Optional: ATS

EPmaster EPM4 th has a digital LCD screen, which provides easy reading of the information regarding the Engine, Alterator, Mains and Charging. The controller meets all requirements for Auto Mains Failure (AMF) applications including remote communication and internet control, user configuration and complete genset monitoring and protection. -Protection of the engine and alternator, with the ALARMS -Other characteristics: READINGS that can be made:

- READINGO that can be made.	activated:	-Other characteristics.
<u>Engine</u> :cooling temperature/oil pressure/revolution speed (rpm)/fuel level/b attery voltage/battery alternator voltage/operating hours/number of start		Event log, real-time clock, scheduled start & stop generator (can be set as start genset once a day/week/month whether with load or not). Maximu m 99 event logs can be memorized.
<u>Alterator:</u> voltages between phases and between phases and neutral/frequency/phase sequence		With maintenance function. Types (date or running time) can be optional and actions (never, warning, or shutdown) can be set when maintenance time out.
Mains: frequency/voltages between phases and between phases and neutr al (L1-N, L2-N,L3-N)/voltages between phases and (L1-L2, L2-L3, L1-L3)/phase sequence	<u>Mains:</u> over and under voltage and loss of phase	Equipped with CANBUS port and can communicate with J1939 enginet. Not only can monitor frequently-used data (such as water temperature, oil pressure, speed, fuel consumption and so on) of ECU machine, but a lso control starting up, shutdown, raising speed and speed droop via CANBUS port
<u>Load:</u> Current(la,lb,lc)and each phase and total active power(kw)/reactive power(kvar)/apparent power(kva)/power factor/accumulated generator power(kwh,kvah,kvah)/output percentage with load (%)		RS485 communication interface enables "Three remote" functions (remote control, re mote measuring and remote communication) according to MODBUS protocol.
	ed and when it is restored, respectively.It can also operate MANUALLY and A	Parameter setting: parameters can be modified and stored in internal FLASH memory and cannot be lost even in case of power outage; most of them can be adjusted usin g front panel of the controller and also can be modified using PC via USB or RS485 p ort

Standard Configuration & Op	otion	
Item	Standard	Option
	Standard air filter	Heavy duty air filter
	Standard fuel filter	Air intake shutoff valve chalwin type
	Standard oil filter	Intake air heater
	Low coolant level sensor	Oil temperature sensor
	Exhaust gases compensator	Diesel-powered heater
·	24V Electrical system	Engine water heater
ngine	Radiator with bloweing fan	
	Electronic governor	
	Sender WT	
	Sender OP	
	Hot components and radiator guards	
	Mobile components guards	
	Self-excited and Self-regulated	Air inlet filter
	IP23 protection degree	IP44/IP54/IP55
lternator	Insulation H class	Space heater/anti-condensation heater
illemator		Environment protection
		Temperature detectors
		Parallel operation
	Battery isolator switch	Distribution board with sockets kit and power busbar
	3 poles circuit breaker	4 poles circuit breaker
Electrical system	Door opening alarm	Adjustable ELCB(Earth Fault)
	Battery charger 220-240V	Grouding rod
		ATS
	Water separator filter	Diverter valve kit for external fuel tank
	Low fuel level alarm	Automatic fuel refilling kit
ccessories	Oil extraction pump	Trailer
	Tool kit for maintenance	Residential silencer
	Voltage/Speed potentiometer	Electric engine fuel heater
	No Expansion tank	Expansion tank for coolant water

Generating Set transport data

Dimensions(Open Skid Type) With Standard Fuel Tank



- $\sqrt{\text{The complete gen-set}}$ is mounted on whole on a heavy-duty fabricated,steel base frame.
- $\sqrt{\mbox{Antivibration pads}}$ are fixed between the engine/ alternator feet and the base frame ;
- $\sqrt{}$ Base frame design incorporates an integral fuel tank.
- $\sqrt{\ }$ The generating set can be lifted or carefully pushed / pulled by the base frame;
- $\sqrt{\rm Dial}$ type fuel gauge and drain plug on the fuel tank; $\sqrt{\rm Forklift}$ pockets within base frame (up to 500kVA);

Over All Size

Length	mm	1650
Width	mm	810
Height	mm	1250
Shipping Volume	m3	1.67

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Dry Weight	Kg	639
Fuel Tank Capacity	L	80

Dimensions(Silent Type) With Standard Fuel Tank



√All canopy parts are designed with modular principles.

- √ Without welding assembly
- $\sqrt{\,\text{All}}$ metal canopy parts are painted by electrostatic polyester powder paint. $\sqrt{\text{Doors}}$ on each side
- √Thermally insulated engine exhaust system.
- √Emergency stop push button outside of canopy.
- √Easy maintenance and operation.

Over All Size

Length	mm	2100
Width	mm	980
Height	mm	1350
'		
Shipping Volume	m3	2.78

Shipping Volume	m3	2.78
Dry Weight	Kg	950
Fuel Tank Capacity	Ĺ	80



