



TEREX DIESEL

YANGDONG

DIESEL GENERATOR SET

TRX YD TA 0050



WATER COOLED



1-3 PHASE



50 Hz



STAGE2



DIESEL

Service		Standby	Prime
Power	kVA	50	45
Power	kW	40	36
Motor Speed	r.p.m	1500	
Voltage	V	230/400	
Power Factor	Cos Phi	0,8	

Standby power; In standby operation, the load value defined in the document defines the annual usage at an average load of 70% under variable load conditions. Overloading is not allowed. Standby power is 10% more than prime power. It is used as backup power in areas where grid power infrastructure is available.

Prime operation; Unlimited hours of use throughout the year with an average load factor of 70% of the power defined in the document during a 24-hour operation period. Overloading is allowed for a maximum of 1 hour in variable periods every 12 hours of operation. This does not include continuous operation for 1 hour under overload.

Continuous operation; Unlimited hours of use of the entire defined power (100%). Overloading above the defined power is not allowed. It is for use in areas without grid power.

QUALITY STANDARDS

Our generators comply with VDE 0530, BSE 4999 BS5000, IEC 34, EN12601; EN60204-1; TS ISO 8528-1 ... -13; EN12100-1; EN12100-2; EN61000-6-4; EN61000-6-2; EN61000-4-11; EN61000-4-6; EN61000-4-5; EN61000-4-2; EN55011; EN55016-2-1; EN55016-2-3; EN61000-3-2; EN61000-3-3; EN55014-1; EN61000-6-2; EN61000-4-3; EN61000-4-4; Manufactured in accordance with EN61000-4-8; EN61000-4-11; TS EN ISO 3744; TS EN ISO 3746; TS EN 60034-1; TS EN 60034-22; TS EN ISO 3046; BS 5514; NEMA MG 21; IEC 60034, BS 4999/5000, TS EN 60947-1..4 standards.

ISO 9001-2015, ISO 14001-2015, ISO 45001-2018 and ISO 1002-2006 management system certificates have been obtained with accreditation from TUV AUSTRIA.

Our generators, with sound insulation enclosures up to 400 kW power, are manufactured in accordance with directive 2000/14/EC and are certified by SZUTEST.

Our generators are certified according to TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 Insulation Foam Fire Behavior and TS EN ISO 9227 1500 Hour Neutral Salt Test. Our generators have CE Declaration.



TEREX DIESEL



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ENGINE SPECIFICATIONS

Service	Features
Brand	YANGDONG
Model	Y4110D
Engine Type	4 Stroke - Diesel
Injection Type	Direct Injection
Intake Type	Natural
Number of Cylinders	4
Cylinder Bore and Stroke	mm 110x118
Cylinder Volume	L 4,484
Cooling Type	Water Cooled
Compression Ratio	18:01
Fuel Consumption at 100% Prime Load	(Ltr/h) 12,03
Fuel Consumption at 75% Prime Load	(Ltr/h) 9,15
Fuel Consumption at 50% Prime Load	(Ltr/h) 6,91
Fuel Consumption at 25% Prime Load	(Ltr/h) 5,09
Total Oil Capacity	L 13
Total Cooling Capacity	L 7,2
Governor Type	Type Mechanic

The engine used in the generator set is a heavy-duty, industrial-type diesel engine. Depending on the model, the system is equipped with a water-cooled structure, naturally aspirated or turbocharged air intake system, mechanical or electronic governor, 12V/24V starter motor and charging alternator. The engine has replaceable air, fuel and oil filters, a flexible fuel hose, an oil drain valve and extension hose or oil drain pump. The system is also supplied with an industrial-type muffler, exhaust spiral or compensator, maintenance-free starter battery, and, in suitable models, an engine block water heater. Maintenance and operating manuals and electrical diagrams are provided with all products.

ALTERNATOR SPECIFICATIONS

Service	Features
Brand	TEREX
Model	TA180-34N2
Output Voltage	V 230/400
Frequency	HZ 50
Automatic Voltage Regulation	±% 1
Alternator Standby Power	kVA 52
Alternator Continuous Power	kVA 37,44
Power Factor	Cosφ 0,8
Number of Cables	12
Winding Pitch	2/3
Protection Class	IP23/H
Warning System	Self-excited
AVR Model	SX460
Performance - PF 0.8 / 75% Load	% 87,8

The alternator used in the generator set is a brushless, single-bearing, 4-pole synchronous type with flexible disc connections. It has Class H insulation and IP21-IP23 protection class. The system is self-excited and provides voltage stability with an electronic voltage regulator (AVR). The alternator stator windings are designed with a 2/3 pitch to reduce harmonic distortions. All windings are protected with a special insulation varnish against oil, moisture and acidic effects, offering long-lasting and reliable operation.

DIMENSIONS

OPEN TYPE



LxWxH	mm	1200x1000x1050
Weight	kg	1230
Fuel Tank	lt	100

WITH CABIN



LxWxH	mm	1800x1000x1250
Weight	kg	1330
Fuel Tank	lt	100

CABIN FEATURES

- Soundproof enclosure designed according to a modular principle
- Enclosure assembly using bolts and nuts without welding
- Enclosure components painted with epoxy-polyester outdoor powder coating using nanotechnology
- IP23 protection rating
- Design suitable for easy generator maintenance
- Lockable doors on both sides
- Emergency stop button in a flush-mounted special recess on the cabinet's exterior
- Transparent panel window
- Fire-resistant acoustic foam insulation
- Nano-technology cleaning system
- Container optional

SILENCER OPTIONS

- Industrial-grade
- Critical-grade silencer
- Hospital-grade

CABIN OPTIONS

- Standard Cabin
- Quiet Cabin
- Oval-Shaped Cabin

OPTIONAL EQUIPMENT

- Charging ammeter
- Thermal-magnetic circuit breaker (in automatic models)
- Hospital/critical-grade silencer
- Soundproof enclosure designed according to a modular principle
- Trailer
- Synchronization panel for 2–16 generators
- 3-pole/4-pole power transfer panel
- Fuel heater, oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter
- PMG warning system

GENERATOR PROTECTION AND ALARMS

- High engine temperature
- Low oil pressure
- Excessive and low engine RPM
- Low coolant level
- Excessive current
- Excessive and low alternator voltage and frequency
- Start/stop system malfunction

OPTIONAL GENERATOR CONTROL DEVICES

A new generation of single-generator control units that combine versatility with extensive communication capabilities for both backup and primary power applications, featuring EFI engines.

Datakom DKG 309



Datakom D500



Datakom D500-GSM



EMKO Trans-AUTO



DEEPSEA 7320



ComAp AMF25



	Datakom DKG 309	Datakom D500	Datakom D500-GSM	Deepsea 6120	Deepsea 7320	ComAp AMF25	EMKO Trans-AUTO
Automatic Main Monitoring	✓	✓	✓	✓	✓	✓	✓
Manual Operation	✓	✓	✓	✓	✓	✓	✓
Remote Operation	OPTIONAL	OPTIONAL	✓	X	OPTIONAL	OPTIONAL	OPTIONAL
Remote Monitoring via SIM Card	X	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL
Optional Features (Horn, Oil/Fuel, etc.)	✓	✓	✓	✓	✓	✓	✓
Warning Light and MIM Diagram	✓	✓	✓	✓	✓	✓	✓
Battery Charger	✓	✓	✓	✓	✓	✓	✓
RS-485 Communication	OPTIONAL	✓	✓	X	✓	OPTIONAL	✓
Ethernet (TCP/IP) Communication	X	✓	✓	X	OPTIONAL	OPTIONAL	OPTIONAL

GENERATOR CONTROL DEVICES FOR SYNCHRONIZATION SYSTEMS

The new-generation synchronous generator control unit is equipped with a full range of communication capabilities and functionalities.

Datakom D500 MK2



Datakom D700



DEEPSEA 8610



DEEPSEA 8620



DEEPSEA 8660



ComAp IntelliCompact NT SPtM



ComAp IntelliGen BaseBox



ComAp IntelliGen 200

