

TRX-Q-175

Diesel Generator



TEREX

DIESEL



Generator Features

- 4 stroke 1500 rpm water cooled heavy duty diesel engine
- Radiator capable of cooling up to 50 °C
- 4-pole synchronous type, single bearing, brushless alternator
- Flexible fuel hoses and oil drain valve
- Welded steel sheet, powder coated electrostatic powder coated chassis
- Dry type replaceable air filter
- MEngine jacket water heater
- Chassis integrated fuel tank
- Industrial type silencer
- Electronic battery charger
- Electric circuit diagram
- Operation and maintenance manual
- Manual start protection system
- Battery and cables

Prime Power

Limited time operating power under variable load. It is used as backup power in case of mains power outages. Overloads are not allowed.

Standby Power

Continuous operating power under variable load. According to ISO 3046 standard, 10% overload is allowed in 12 hours operation.

Generator Features

		Prime	Stand-by
Power	kVA	158	175
Power	kW	132	145

Generator Model	TEREX-Q / TRX-Q-175
Engine Model:	QZ6105IZLD
Fuel Type:	Diesel
Frequency:	50 Hz
Power Factor:	Cos Φ = 0.8
Voltaj:	400/231 V

Dimensions		With cabin	Without cabin
Lenght	mm	2350	1850
Heigh	mm	1730	1550
Width	mm	1100	950
Weight	kg	1390	1110
Fuel Tank Capacity	lt	140	150

H: External

K: Container

TBA: to be added



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Engine

Engine Brand		QUARTZ
Engine Model:		QZ6105IZLD
Engine Type:		4 Stroke Diesel Engine
Engine Stan-by Power:	kWm	88
Engine Prime Prime:	kWm	80
Cylinder Arrangement:		6L
Total Cylinder Arrangement:	lt	4,484
Cooling System:		Water
Broke-Stroke:	mm	110 x 118
Compression Ratio:		16:1
Aspiration:		Turboşarj, Intercooler
Governör Type:		Electronic
Elektrical System:	VDC	12
Lubricant Oil Capacity:	lt	16
Coolant Capacity:	lt	19
Frequency Lt:	Hz - d/dk	50 - 1500
Jacket Water Heater:	quantityx W	1 x 1000
Battery:	quantityx AH	1 x 90
Charge Alternator Current:	A	TBA
Injection System:		Direct
Cooling Air Flow:	m ³ /dk	220
Combustion Air Flow:	m ³ /dk	4,8
Exhaust Gas Flow:	m ³ /dk	14,1
Exhaust Gas Temperature:	°C	600
Fuel Consumption Under 100% Load:	lt/s	20,9
Fuel Consumption Under 75% Load:	lt/s	15,7
Fuel Consumption Under 50% Load:	lt/s	10,4

Alternetör

Phase / Pole Number:		3/4+
Excitation System:		Self Excited, Brusless
Voltage Regulator:		A. V. R. (Otomatik)
Voltage Regulation:		±%1
Insulation Class:		H
Protection Class:		IP23
Connection Type:		Star
Frequency:	Hz	50
Power Factor:		Cos Φ = 0,8
Total Harmonic Distortion (No Load):		< % 3.5
Output Voltage:	VAC	231/400

TBA: To be added



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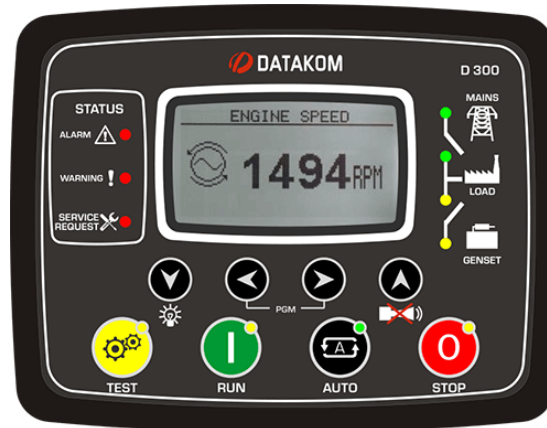
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Control Panel



Datakom D300

Datakom D300 Automatic Control Module

AMF function ATS function

Remote start function Manual start function Engine control function

Suitable for remote monitoring

Mains and Genset LL- LN Voltages

Mains and generator frequency Mains and genset phase currents Mains and generator neutral currents

Grid and generator phase and total, kW, kVA, kVAR
Power factor, engine speed, battery voltage and more

Connections

3 phase 4 wire, stars & delta

3 phase 3 wire, 2 current transformer

2 phase 3 wire

1 phase 2 wire

Communication

RS232 – 485 connection with cable J1939-CANBUS

GSM / GPRS connection Ethernet connection

Modbus RTU

Protection Functions

- Overvoltage
- Low voltage
- Voltage asymmetry and phase sequence High frequency
- Low frequency Short-circuit current Overcurrent
- Power factor
- Coolant temperature Low oil pressure

Auto Panel Features

- Automatic generator, grid control and fault monitoring Easy control with a user-friendly interface from the panel screen
- Remote operation with optional communication cards Manual programming with password-protected service interface
- Manual control of generator and transfer panel with buttons on the front panel
- Front panel protection class IP65
- With an operating temperature of -20 C to +70 C and a storage temperature of -40 C to +80 C



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