23 KW / 29 KVA
POWERED by YANMAR

MODEL	TP-Y25-T4i-60
Triton Power is a world leader in the design, manufacture of stationary, mobile and rental generator sets and Power Modules from 10 to 2000 kW. Through our commitment to quality we manufacture with only the highest quality components from companies like Cummins, John Deere, Perkins, Marathon, and Deep Sea. All of this plus our worldwide warranty, customer service professionals, is why Triton is the **THE POWER OF QUALITY**	

Available Voltage	**Single Phase**	**Standby**	**23 kW / 23 kVA**
3 Phase – Single Phase		**Prime**	**21 kW / 21 kVA**
120/240, 120/208, 277/480	**Three Phase**	**Standby**	**23 kW / 29 kVA**
Power Factor 1.0 Single Phase, 0.8 Three Phase		**Prime**	**21 kW / 25 kVA**

Standby : Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046 .

Prime : Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance wit h ISO 8528, ISO 3046.

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance
- Every generator set is subject to a comprehensive test program which includes full load testing and checking and providing of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories:
  - Sound Attenuated Enclosure
  - Trailer with fuel tank
  - UL Listed Fuel Tank
  - Permanent Magnet Generator
  - Electronic Governor

Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.
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ENGINE INFORMATION		
ENGINE MAKE		**Yanmar**
Model		**4TNV84T**
Tier Rating		**Tier 4i**
Engine Speed	**RPM**	**1800**
Engine Power Output at rated rpm	**kWm**	**24.2**
	HP	**32.4**
Cooling		**Radiator Cooled**
Aspiration		**Turbocharged**
Total Displacement	**Cu. In.**	**121.7**
No. of Cylinders and Build		**4-Inline**
Bore and Stroke	**mm x mm**	**84 x 90**
Compression Ratio		**19:1**
Governor		**Mechanical**
Fuel Consumption(Gal/hr)	**Full Load**	**1.77**
	75% Load	**1.33**
	50% Load	**1.00**
Fuel Tank Capacity (Non-UL)	**Gal**	**12 Hour**
Oil Capacity	**L**	**7.2**
Coolant Capacity	**L**	**5.8**
Radiator Cooling Air	**m^3/min**	**1.0**

Compact, Efficient Power

- Precision and flexibility come together in this 4-cylinder engine. Self-adjusting poly-vee fan drive provides more than twice the capacity of comparable vee-belts. Either-side service option makes dipstick and oil filter available where you need them.
- Dynamically balanced crankshaft
- Forged-Steel Connecting Rods
- Replaceable Wet-type Cinder Liners

Certification

- Generator set is CSA certified and meets ISO 8528-5 standards

Cost Effective Power

- Compact size and low noise.
- Lower fuel consumption and oil use.
- 600 hour service intervals.
- 1 year warranty.

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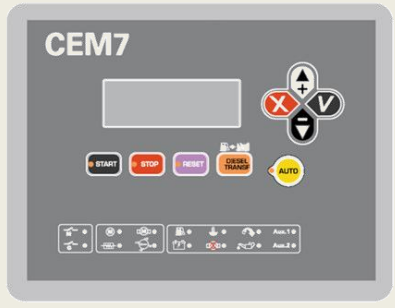
CONTROLLER INFORMATION
CEM7



The CEM7 control unit is a generator set power supervision and control device. The control unit consists of 2 different modules:

1. *Display module*. The display module is responsible for carrying out the information tasks regarding the status of the device and allows actions to be performed by the user; through the display module the user is able to control the control unit, as well as program and configure the functions. Through the display module, access is given to a record of the last 10 errors registered by the control unit.
2. *Measurements module*. The measurements module is responsible for performing the tasks of monitoring and control of the control unit. This module is located in the rear panel to reduce wiring and increase the control unit's immunity against electromagnetic noise. All the signal, sensor and actuators are connected to the measurements module.

Display Module

The display module has a backlit display and various LEDs for monitoring the status of the control unit. It also has keys that allow the user to control and program the control unit.

1. Backlit display 4 lines by 20 digits.
2. Control unit buttons: Buttons for control unit operating mode, Control unit command buttons, Display buttons and Genset contactor activation button (only CEM7P module)
3. Status LEDs: ENGINE status LEDs, ALARMS LEDs, CONTACTORS status LEDs

Measurements module

The measurements module provides the following electrical signal characteristics, both those generated and those from the network itself: phase-neutral voltage, phase-to-phase voltage, current phase, frequency, active, apparent and reactive power, power factor and cosine of fi, instant energy (kWh) and accumulated power (day, month, year) with the timer option, THD (total harmonic distortion) of voltages and currents, calculation of harmonics up to order 20.

The measurements module provides the following engine characteristics: engine alarm inputs (fuel reserve, oil pressure, water temperature, water level, emergency stop), analogue inputs of the engine (fuel level, pressure, temperature, configurable input oil temperature, charge-battery alternator voltage), configurable inputs (tariff change warning, tariff change (CEM7 + CEA7CC2), start up disabling, external start, test (CEM7 + CEA7CC2), forced operation, 5 programmable alarms, genset contactor confirmation, parameter set selection, gas train verification), engine statistics (operating hours, number of starts), engine functions (preheating, stopping, starting, heating resistor, fuel transfer pump, battery charging alternator excitation.

The connection of the measurements module and display module is performed via a CAN communications bus, enabling the interconnection between additional modules which ensures the scalability of the control unit.

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ALTERNATOR INFORMATION	
Manufacturer	Stamford
Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 -163°C Continuous
Exciter Type	Self Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%

STANDARD ITEMS

- Mainline Circuit Breaker
- Generator Set mounted on Heavy Duty Steel Base Frame
- Anti-Vibration Pads between Engine/Alternator and Frame
- Forklift Pockets within Base Frame (up to 400 kW)
- Battery Charging Alternator

OPTIONAL ITEMS

ENGINE OPTIONS	• Engine Block Heater • Racor Fuel Water Separator • Oil Heater
ALTERNATOR OPTIONS	• Permanent Magnet Generator • Anti-Condensation Heater • Oversized Alternator (Motor Starting)
OTHER OPTIONS	• Sound Attenuated Enclosure with Critical Silencer (63 db at 7 meters) • Trailer (with or without fuel tank) • UL-142 Base Mounted Fuel Tank • Residential or Critical Grade Silencer

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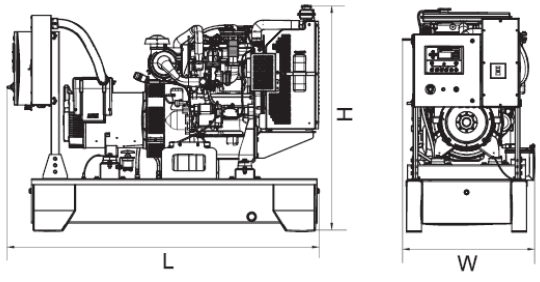
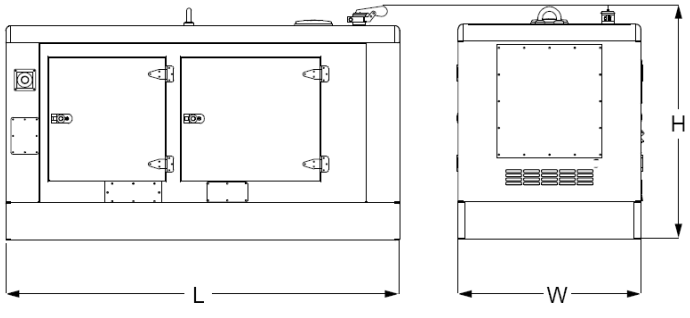
WEIGHT AND DIMENSIONS



SKID MOUNTED GENERATOR		
DIMENSIONS (LxWxH)	In	65.6 x 31.9 x 47
DRY WEIGHT (weights are without fuel tank)	lbs	1003



SOUND ATTENUATED GENERATOR		
DIMENSIONS (LxWxH)	In	82.6 x 38.4 x 49.2
DRY WEIGHT (weights are without fuel tank)	lbs	2315
FEATURES AND BENEFITS OF ENCLOSURE:		
• All enclosure parts are modular • No welding to reduce corrosion • Doors on both sides for easy maintenance • All metal parts are powder coated		• Critical Exhaust Silencer Included • Thermally insulated exhaust system • Emergency stop located on exterior • Easy Lifting and Moving

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