

# TP56-ULT3

# Power When You Need It!



Powered by:  
Perkins



Stationary Engine Generator Assembly  
3HRF

Sample Units

### Generator Ratings @ 1800 RPM

Voltage	Ph	Hz	Standby Output kW (kVA)	Prime Output kW (kVA)	Standby Max Amp Output	Number of Wires
120/240	1	60	56 (56)	51 (51)	233	4
120/208	3	60	56 (70)	51 (64)	194	12
120/240	3	60	56 (70)	51 (64)	168	12
277/480	3	60	56 (70)	51 (64)	84	12

### Standard Generator Set Features

- Perkins Diesel Engine Model 1104D-E44TG1 Tier 3
- Engine and alternator mounted on vibration isolators.
- Radiator sized for 120° F ambient clearance.
- Dry type air cleaner.
- 12-VDC Starter, engine mounted battery charging Alternator and battery cables.
- High coolant temp. and low oil pressure safety shutdowns.

- AC, Single bearing direct coupled alternator with class 'H' insulation, sized for 130° C temperature rise.
- Microprocessor based control panel w/ metering, alarms, shut down, under / over frequency & voltage protection.
- Tradewinds' 2-year, 1,500 hour warranty (1-year Prime).
- Complete set of Owners/Operators manuals.

### Optional Equipment

- UL2200 and non-UL configurations.
  - Level II Weather protective enclosure constructed of marine-grade aluminum 0.090 thickness, SS hardware, white powder coat paint finish on both sides, with or without sound insulation. Insulation is resistant to high temperatures, fuel and oil. Hinged, removable, keyed alike doors, residential rated interior mounted exhaust silencer vertical radiator and exhaust discharge. Oil & coolant drain lines with brass check valves.
  - Level III Sound Attenuated Enclosure, equal to level II with additional sound attenuation.
  - Level I weather protective enclosure is constructed of .080. pre-painted aluminum, not marine grade.
- Enclosures carry ASCE 7-05 wind load rating of 150MPH**
- Custom color option for level II & III enclosures.
  - Wide selection of UL 142 and single wall fuel tanks.
  - Upgrade to critical exhaust silencer

- Mainline circuit breaker.
- .Digital or analog control panels ( UL requires digital).
- 17 Light remote annunciator panel.
- Selection of automatic battery chargers 6 or 10 amps.
- Thermostat controlled jacket water heater.
- Low coolant level switch.
- 120V Receptacle for battery charger and / or coolant heater.
- Water separator fuel filter.
- Permanent Magnet Generator (PMG) with voltage regulator upgrade.
- Space heater.
- Automatic transfer switches.
- D.O.T trailers, single or dual axle with Electric or Hydraulic brakes.
- Starting battery.

\*Stand by ratings are applicable for the duration of any power outage. No overload is available at these ratings. Prime ratings are continuous per BS 5514, DIN 6271, ISO3046 & IEC 34-1. Overload capacity on prime-power ratings is 10% for one hour in each twelve hours of operation. All single phase ratings are based on a 1.0 power factor, three (3) phase ratings based on a 0.8 power factor. Ratings are established based on 85° F ( 29° C ) and an elevation of 1,000 feet ( 305 meters ). Please consult your Tradewinds representative for information concerning derates for temperature, altitude & humidity.

Manufactured by:

Tradewinds Power Corp • 5820 NW 84th Avenue • Miami, FL 33166 • 800-223-3289 [www.tradewindspower.com](http://www.tradewindspower.com)

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## Engine Specifications

**Model: Perkins 1104D-44TG1 Tier 3**

Max. power: 72 bhp / 96 kWm @ 1800 rpm  
 Cubic capacity: 269 in<sup>3</sup> / 4.41 L  
 Bore & stroke: 4.13" x 5" ( 105mm x 127mm )  
 Turbocharged, 4 cylinder vertical in-line, 4 stroke direct injection  
 Governor type: Electronic  
 Frequency regulation: Isochronous, steady-state

**Fluids:** Oil capacity total system - 8.88 ( 8.4 liters )  
 Coolant capacity w/ radiator - 3.49 gallons ( 13.2 liters )

**Fuel Consumption: US gallon ( liters ) /hr @ 1800 rpm**

50% load - 3.17 ( 12 )  
 75% load - 4.49 ( 17 )  
 100% load - 5.02 ( 19 )

**General:** Oil filter - spin-on type.  
 Air filter- Dry element type.  
 Electrical system: 12v Starter, 65 amps alternator DC output  
 Minimum recommended battery size: 1190 CCA  
**Fuel type:** BS 2869: Part 2 1998 Class A2 or ASTM D975 D2

## Alternator Specifications

**Marathon Electric:** Brushless, 4pole rotating field.  
 Voltage regulation + / - 1%, Volts/Hertz, Electronic, EMI filtered.  
 Class insulation 'H' to NEMA MG-1-1.66  
 Rated temp. standby 130 C° rise / 40 C° ambient.  
 Coupling, SAE adapter, flexible disc, direct.  
 Load acceptance, one step, 100% per NFPA 110.

**Features:** Self ventilated drip-proof construction. Superior voltage wave form achieved by a 2/3 pitch and skewed rotor. Vacuum-impregnated windings with fungus-resistant epoxy for dependability and long-life. Compliance with NEMA, IEEE and ANSI standards for temp. rise. Sustained short-circuit capability enabling down-line circuit breakers to trip without collapsing the generator field. No load to full-load regulation of +/- 2%.

## Control Panel Specifications

**DGC2020**

Microprocessor based, navigation key with large LCD display, event recording transfer switch control (main failures). SAE J1939 CANBUS communication multilingual capability. Suitable for rental application. Remote communication capability (optional).



**Operational features**

- Alternator protection: under / over voltage, under / over frequency.
- Engine protection: Low oil pressure, high coolant temperature, over speed & over crank, sender unit failure, fuel leak/fuel sender failure, battery charger failure.
- All protections are programmable as alarms or pre-alarms.
- Operating power: Nominal 12-24 Vdc.

- consumption 14.2W run mode
- Metering (ample range): Volts, current, Hz, watts, VA, Pf, oil pressure, coolant temperature, rpm, DC volts, fuel level, engine running time.
- Engine control with timers
- External remote start input (on or off load)
- 16 programmable contact inputs.
- 7 Contact outputs

Agency Approval: UL 508 R CSA C22.2 No 14 NFPA 110

CE Compliance: EC LVD-73/23/EEC EN 61000-6-4:2001 EMC EN 50178:1997 EMC- 89/336/EEC EN 610000 6-2:2001 EMC Immunity

**One complete set Owners / Operators, Engine, Alternator and Accessory manuals**

## Dimensional and Mounting Specifications

Inches (mm): 103 (2616) L x 36.7 (932) W x 56.5 (1435 )H w/ Enclosure Only Less Fuel Tank  
 Estimated Overall Dry Weight lb. (kg): 2575 ( 1168 ) Less Fuel Tank

*Note:* The above dimensions and weights would change if a sub-base fuel tank was added. An electrical stub area is positioned at the rear of the sub-base fuel tanks. Spacing from rear access cover to the tank is approximately 9 inches (228.6 mm).

Specifications are subject to change without notice



Authorized Dealer:

Manufactured by:

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