

UTP100-P3 100kW / 125kVA GENERATOR

PRIME POWER

100kW-60Hz-120/208V



| Alternator Specification | | Engine Specification | |
|--------------------------|---------------------|----------------------|---------------------------|
| Manufacturer | Stamford | Manufacturer | Perkins |
| Model | UC I274G14 | Model | 1104D-E44TA |
| Prime power | 100kW / 125kVA | Emissions | EPA Tier 3 |
| Standby power | 110kW / 137kVA | Displacement | 269 cu in |
| Rated voltage | 120V/208V | Cylinders | 4 inline |
| Configuration | 3-phase 4 wire | Aspiration | Turbocharged |
| Rated current | 395.6A | Cooling system | Liquid |
| Rated frequency | 60Hz | Rated speed | 1800 rpm |
| Insulation class | H | Torque | 411.2 lb. - ft @ 1400 rpm |
| AVR | AS440 | Maximum Power | 142HP |
| Power Factor | 0.8 | Compression Ratio | 16.2:1 |
| Canopy | | | |
| Dimensions | L120" x H78" x W44" | Built in fuel tank | 91.6 gallons |
| Noise rating | 65dBA @ 21' | | |

Features and benefits:

- Our generator sets are reliable and perform with extremely low noise emissions. Powered by either Perkins or Kohler diesel power plants, we sourced the best available engines in the industry.
- The electricity is produced by AC alternators made by either Onan, Stamford or Leroy-Somer, the top manufacturers of power generators.
- All engine and alternator functions as well as the fuel tank level are handled by a Deep Sea Electronics controller for optimal automation and protection of the genset. The engine performance and generator power output can be remotely accessed for observation and start / stop control either from a desktop at your home or office or through an App on your cellphone.
- The powder coated steel canopy offers protection from the environments as well as to keep noise pollution to a minimum. Large service doors on all sides supply easy access for service and maintenance.
- All units are equipped with an internal fuel tank. It is sized big enough to keep the generator running at maximum capacity for 24 hours in case of an emergency. We also stock external fuel tanks in various sizes for longer running times and can assist you in choosing the right size for your individual application as well as how to connect them to your generator.
- The built-in fuel transfer pump lets you connect external fuel tanks for extended run time.
- The electrical connection can be made either direct to the lugs of the main breaker or via Camlok connectors.
- An easily accessible panel on the outside provides two GFCI protected courtesy outlets and a connection to the built-in battery charger / tender to keep the starting battery always fully charged during extended periods of nonuse.

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ENGINE SPECIFICATIONS

| | |
|---|-------------------------------|
| Manufacturer | PERKINS |
| Model | 1104D-E44TA |
| EPA certified | Tier 3 |
| Crankshaft speed | 1,800 rpm |
| Type | Diesel 4-stroke |
| Injection | Direct |
| Aspiration | Turbocharged w/ wastegate |
| Number of Cylinders | 4 |
| Cylinder arrangement | In-line |
| Displacement in ³ (cm ³) | 269 (4408) |
| Bore and Stroke inches (mm) | 3.8 x 4.6 (96 x 116) |
| Nominal power kW (HP) | 55.4 (74.4) |
| Cooling system | Liquid |
| Governor | Electronic |
| Starting motor & alternator | 12 Volt |
| Engine system voltage | 12 Volt |
| Air cleaner type | Heavy duty - single cartridge |

COOLING SYSTEM

| | |
|---|--|
| Total cooling capacity - US gallons (liters) | 4.5 (17) |
| Max. Operating Temperature °F (°C) | 122 (50) |
| Coolant (mix with distilled, deionized, or demineralized water) | ASTM D-3306 or D-6210 (50/50 or 40/60) |

LUBRICATION SYSTEM

| | |
|--|----------------------------|
| Oil pan capacity with filter - US gallons (liters) | 2.2 (8.4) |
| Oil cooler | Liquid |
| Recommended lubricating oil grade | SAE 15W-40 API CJ-4 Low |
| Oil consumption at full load | < 0.1% of fuel consumption |

FUEL SYSTEM

| | | | | |
|--|--|-----------|------------|-------------|
| Recommended fuel | EN 590 (biodiesel content max. 7% (V/V)) or ASTM D975 cetane >45 | | | |
| Fuel economy best point g/kWh | 205 | | | |
| Fuel consumption load% - gal/hr | 25% - 5.2 | 50% - 9.0 | 75% - 12.8 | 100% - 16.6 |
| Runtime load% - hrs | 25% - 17 | 50% - 10 | 75% - 7 | 100% - 5 |
| Ext. fuel supply line diameter in inch | 3/4 | | | |
| Max. lift m (ft), pump type | 3 (9), self-prime | | | |
| Primary fuel filter / water separator in microns | 10 | | | |
| Secondary fuel filter | N/A | | | |

ALTERNATOR

| | |
|--|---------------------------|
| Manufacturer | STAMFORD |
| Model | UC I274G14 |
| Voltages | 120/208V 3-phase 4 wire |
| Frequency Hz | 60 |
| Power kVA | 142.5 |
| Power kW | 114 |
| Amps | 395.6 |
| Alternator Type | Four pole, rotating field |
| Number of leads | 12 leads, reconnectable |
| Stator Pitch | 2/3 |
| Insulation | Class H |
| Windings – Temperature Rise | 311 - Class H (125/40° C) |
| Enclosure | IP23 |
| Bearing | Single, sealed |
| Voltage regulation – no load to full load with AS440 AVR | ± 1% |

CONTROLLER SPECIFICATION

| | |
|-------------------------------------|----------------------|
| Manufacturer | Deep Sea Electronics |
| Model | DSE7320 Mk II |
| Programmable run exercise scheduler | Yes |
| Remote communications module | DSE890 MkII |

CANOPY

| | |
|---|--------------------------------|
| Panel with 2 dual courtesy outlets | 2x dual outlets GFCI protected |
| Built in battery charger / tender | |
| Electric cooling fans | 3 |
| Built in fuel tank in base capacity gallons | 91.6 |
| Electrical connection | Camlok connectors |