

# 65 kW Industrial Diesel Generator

GENPOWERUSA GPM-P68-60T3

EPA Tier 3 Stationary Emergency



**GENERAL POWER™**  
THE GENERATOR COMPANY



## Power Ratings

65kW 65kVA Standby ESP  
60kW 60kVA Prime PRP

## Perkins Engine

96HP 1104D-E44TG1  
EPA Tier 3 Stationary Emergency

## Stamford Alternator

UCI-224F

## Deep Sea Controller

DSE4520

## Siemens Circuit Breaker

Din-Rail: 40 to 63A  
Moulded-Case: 80 to 1,600A

## Quality Standard

ISO9001:2015 and individually load bank tested in USA

PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY  
ACTUAL PRODUCT MAY VARY

## Your power generation solution

Powered by the most reliable components in the industry: EPA Tier 3 Perkins diesel engines, Stamford alternators, Deep Sea digital controllers, & Siemens circuit breakers, GENPOWERUSA industrial diesel generators have been meticulously designed to deliver maximum ROI, versatility and dependability for even the most demanding standby and prime applications.

| Voltage | Power ESP<br>kWe/kVA | Power PRP<br>kWe/kVA | Standby Amps | Prime Amps | Phase |
|---------|----------------------|----------------------|--------------|------------|-------|
| 240/120 | 65/65                | 60/60                | 98           | 90         | 3     |

### ATB (Air to Boil)

Unit mounted radiator with 25C (77F) ambient air capability at the standby (ESP) rating

### POWER RATINGS

PRP: Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1:2018  
ESP: Standby Power is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1:2018

### AMBIENT CONDITIONS

According to ISO 8528-1:2018

### LOAD ACCEPTANCE

According to ISO 8528-5, Class G2

| Open Skid Dimensions<br>(Integral 1-Wall Fuel Tank) | Standard Enclosure Dimensions<br>(Integral 1-Wall Fuel Tank) |
|---|--|
| L: 1,960 mm (77.2 in)                               | L: 2,700 mm (106.3 in)                                       |
| W: 784 mm (30.9 in)                                 | W: 1,089 mm (42.9 in)  |
| H: 1,220 mm (48.0 in)                               | H: 1,602 mm (63.1 in)  |
| 41 Gallons  | 72 Gallons   |

# Perkins Engine Specifications

## General Data

|                                     |  |
|-------------------------------------|--|
| Manufacturer                        | Perkins 1104D-E44TG1<br>Turbocharged<br>Tier 3 |
| Cylinders-arrangement               | 4-L  |
| Displacement                        | 4.4-L  |
| Bore (mm) X Stroke (mm)             | 105x127  |
| Compression Ratio                   | 16.7:1   |
| Speed (RPM)                         | 1800   |
| Maximum stand-by power at rated RPM | 71 kW (96 HP)                                  |
| Governor                            | Electronic                                     |

## Fuel Consumption

|                 |                      |
|-----------------|----------------------|
| 100% Prime Load | 19 L/hr (5 Gal/hr)   |
| 75% Prime Load  | 17 L/hr (4.5 Gal/hr) |

## Runtime (Open-Skid)

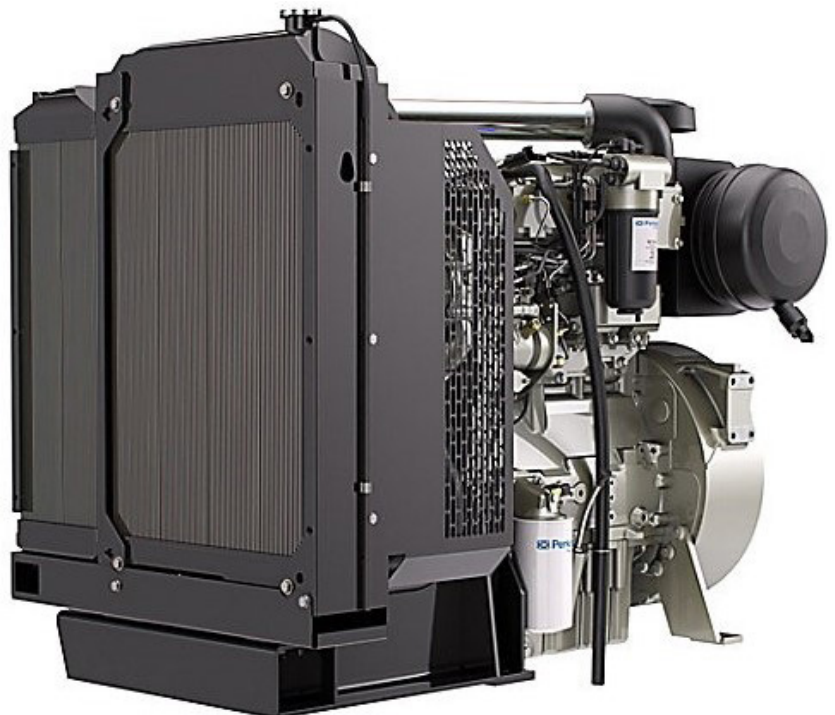
|                        |   |
|------------------------|---|
| Integral Tank (41 Gal) | 8 Hours @ 100% Prime<br>9 Hours @ 75% Prime |
|------------------------|---|

## Runtime (Enclosed)

|                        |   |
|------------------------|---|
| Integral Tank (72 Gal) | 14 Hours @ 100% Prime<br>16 Hours @ 75% Prime |
|------------------------|---|

## U.S. EPA Compliance

|      |                        |
|------|------------------------|
| Tier | 3 Stationary Emergency |
|------|------------------------|



# Stamford Alternator Specifications

## General Data

|                                     |                                |
|-------------------------------------|--------------------------------|
| Manufacturer                        | Stamford                       |
| Alternator                          | UCI-224F                       |
| Number of phases                    | 1                              |
| Power factor (Cos Phi)              | 1.0                            |
| Altitude (M)                        | <1000                          |
| Overspeed (RPM)                     | 2250                           |
| Number of poles                     | 4                              |
| Excitation System                   | Self Excited (P.M.G. Optional) |
| Insulation class/ Temperature class | H / H                          |
| Automatic Voltage Regulator         | Stamford AS440                 |
| Coupling                            | Direct / Single Bearing        |
| Voltage regulation 0 to 100%        | +/- 1.0%                       |



# Control/Electronics Features

## Deep Sea DSE4520MKII Digital Controller

|   |   |
|---|---|
| Microprocessor-based generator controller with dual-core main processor and extended memory       | ✓ |
| User friendly, large, 4-line back-lit LCD text display with support for up to 7 display languages | ✓ |
| Support for up to 3 wired-remote mimic display/control units                                      | ✓ |
| Engine and alternator control   | ✓ |
| Manual, auto, and test operation mode   | ✓ |
| Full range of engine and electrical measurements  | ✓ |
| kW/kVA/kvar/hours counter   | ✓ |
| 250 event history log   | ✓ |
| Push buttons for easy operation   | ✓ |
| Operator Screens: Status, Engine, Alternator, Alarms, Event Log, and ECU Alarm                    | ✓ |

## Warning Alarms

|                               |   |
|-------------------------------|---|
| 50+ fully configurable alarms | ✓ |
|-------------------------------|---|

## Automatic Shutdowns

|   |   |
|---|---|
| Under and Over voltage alarm (ANSI 27, ANSI 59) | ✓ |
| Over load alarm (ANSI 32)                       | ✓ |
| Over current alarm (ANSI 50)                    | ✓ |
| Under and Over frequency (ANSI 81)              | ✓ |
| Under and Over speed                            | ✓ |
| High coolant temperature                        | ✓ |
| Low oil pressure                                | ✓ |
| Low coolant level                               | ✓ |
| Earth fault alarm (ANSI 87G)                    | o |
| Fuel containment leak                           | o |
| Breaker safety switch                           | o |
| Voltage selector switched when engine running   | o |

✓ = Standard Feature    o = Optional Upgrade

## Deep Sea DSEA109 Digital AVR

|  |   |
|--|---|
| Advanced digital automatic voltage regulator with CANBUS and LED indicators  | o |
| ↳ Under frequency roll off protection with optional instantaneous step   |   |
| ↳ Loss of voltage sensing protections  |   |
| ↳ Over excitation protection   |   |
| ↳ Soft start ramping mode with ON/OFF switch. Temporarily reduces the load & torque in the powertrain and current surge of motor during start-up, permitting the sizing of a genset with a lower power rating. | o |

## Deep Sea DSEWEBNET Cloud-Based Remote Monitoring

|   |   |
|---|---|
| Many Internet-access hardware options: 3G/4G/Ethernet   | o |
| ↳ Free 24/7 multi-user, powerful, industry leading remote monitoring software (requires Internet hardware/access) |   |
| ↳ Available via free desktop, iOS and Android app   |   |
| ↳ Customizable branding for corporate accounts  |   |
| ↳ Configurable event triggers and automated reporting for up to 25 users  |   |
| ↳ Geo-fencing and asset tracking via GPS  | o |

## Load-Sharing Configuration Upgrades

|   |   |
|---|---|
| Set-to-set synchronizing and load sharing package, set mounted, Deep Sea DSE8610                                    | o |
| Set-to-set synchronizing and load sharing package, set mounted, DEIF AGC 150  | o |
| Remote "overview" display panel kit (multi-genset), 10" touch-enabled, multi-color, Deep Sea DSE8004 <sup>(1)</sup> | o |

## Control and Communication Accessories

|  |   |
|--|---|
| Remote "mimic" control/display panel kit (single genset), Deep Sea DSE7320MKII <sup>(1)</sup>      | o |
| Remote annunciator panel kit (single genset), Deep Sea DSE2548: 8;16; or 24x lights <sup>(1)</sup> | o |
| Output expansion module kit, Deep Sea DSE2157<br>8x configurable relay contacts                    | o |
| Input expansion module kit, Deep Sea DSE2130<br>8x configurable digital inputs (up to 4 analog)    | o |

(1) Available either as indoor-rated for surface mounting or outdoor-rated inside NEMA3R box



# General Features

## Engine System

|   |   |
|---|---|
| Electrolyte-charged battery with rack, cables, and rubber boot connections                        | ✓ |
| Oil drain extension with in-line valve  | ✓ |
| Electronic isochronous governing  | ✓ |
| Racor water/fuel separator filter   | ○ |
| Hotstart oil pan heater   | ○ |
| Hotstart battery heater   | ○ |
| Hotstart automatic coolant heater   | ○ |
| Hotstart automatic forced circulation coolant heater  | ○ |
| 5 AMP ELECTRONIC automatic battery charger  | ○ |
| 3 AMP SOLAR automatic battery charger   | ○ |
| 10 AMP ELECTRONIC UL intelligent automatic battery charger with configurable 2-3-4 stage charging | ○ |
| AMOT Positive air intake shutdown   | ○ |
| Extended engine warranty: 3 years or 4,000 hours  | ○ |
| Extended engine warranty: 4 years or 5,000 hours  | ○ |
| Extended engine warranty: 5 years or 10,000 hours   | ○ |

## Cooling System

|   |   |
|---|---|
| Industrial grade cooling system   | ✓ |
| Coolant drain extension with in-line valve  | ✓ |
| Fan guards  | ✓ |
| Belt guards   | ○ |
| Radiator and oil drains plumbed to a convenient ports box on the exterior of the skid | ○ |

## Exhaust System (Open-type units)

|  |   |
|--|---|
| Stainless steel flexible exhaust connector | ○ |
| 10dB industrial class silencer             | ○ |
| 29dB residential class silencer            | ○ |
| 35dB critical class silencer               | ○ |

## Alternator System

|  |   |
|--|---|
| Full load rated with thermo-magnetic switch protection   | ✓ |
| Skewed rotor and 2/3 pitch winding suppress triple harmonics and guarantee a superior voltage waveform | ✓ |
| Windings are vacuum-impregnated with fungus resistant epoxy  | ✓ |
| Class H insulation and self-ventilated drip-proof design   | ✓ |
| Analog automatic voltage regulator (AVR)   | ✓ |
| Digital automatic voltage regulator (DAVR)   | ○ |
| Self-excited AVR power and control   | ✓ |
| Auxiliary-excited advanced AVR power and control (by auxiliary winding or permanent magnet generator)  | ○ |
| Alternator oversizing  | ○ |
| Anti-condensation heater   | ○ |
| Reinforced impregnation, coastal environment   | ○ |
| Reinforced impregnation, marine/harsh environment, alternator air filter                               | ○ |
| Winding temperature sensors  | ○ |

## Main Line Breaker System

|  |   |
|--|---|
| Main line circuit breaker, output rated, 80% rating  | ✓ |
| Main line circuit breaker, output rated, 80% rating, UL listed   | ○ |
| 2nd main line circuit breaker, output rated, 80% rating, UL listed   | ○ |
| Breaker shunt trip   | ○ |
| Electronic trip breaker  | ○ |
| Grounding system: TN-C (combined PEN conductor performs the function of both PE and N conductor)             | ✓ |
| Grounding system: TN-S (PE and N via separate conductors that are connected together only near power source) | ○ |

## Base Tank System

|  |   |
|--|---|
| Customizable capacity/runtime: 60 Gal to 500 Gal   | ○ |
| 2-PSI factory pressure tested  | ✓ |
| Sloped-surface basin design for 110% containment of engine fluids  | ✓ |
| Electronic fuel level sender with programmable alarms  | ✓ |
| Mechanical float level with visual gauge   | ✓ |
| Supply line with in-line check valve   | ✓ |
| Heavy-duty AVM's isolate engine/radiator/generator from base tank to reduce vibration and noise  | ✓ |
| Single walled, non UL-142 listed   | ○ |
| Double walled, non UL-142 listed, 110% containment   | ○ |
| Double walled, UL142 listed, 110% containment  | ○ |
| Specialty fuel tanks: UL2085, MDEQ, FDEP/DERM  | ○ |
| Aluminum or stainless steel construction   | ○ |
| Fuel leak containment detection switch   | ○ |
| Herculiner® poly-urethane and rubber granule coating for maximum chip/abrasion/solvent/corrosion/UV resistance   | ○ |
| Automatic Fuel Transfer Kit. PLC-controlled to maintain a predetermined level in the primary tank as well as automatic start, stop, and fuel overflow check. | ○ |

## Maintenance Kits

|   |   |
|---|---|
| 1,000 Hour Engine Maintenance Kit includes OIL/FUEL/AIR/COOLANT filters as applicable for mandatory <1,000 hours service intervals  | ○ |
| 2,000 Hour Engine Maintenance Kit includes OIL/FUEL/AIR/COOLANT filters as applicable for mandatory <2,000 hours service intervals  | ○ |
| Zero-Downtime prevention kit includes: 1x AVR, 1x Diodes Kit, 1x Varistor, 1x Starter Relay, 1x Control Relay, 1x 2 AMP minibreaker, 1x 4 AMP minibreaker, 1x 6 AMP minibreaker, 1x Fuel level sender unit, 1x Fuel lines set | ○ |

## Quality Control

|  |   |
|--|---|
| 90-point quality control inspection  | ✓ |
| Standard load bank testing: full load, 30 min, 1.0PF                           | ✓ |
| Extended load bank testing: full load, 1 hour, 1.0PF                           | ○ |
| Extended load bank testing: full load, 1 hour, 0.8PF                           | ○ |
| Customizable witness testing: on-site at factory or remote via virtual session | ○ |

✓ = Standard Feature    ○ = Optional Upgrade

# Additional Features

## Enclosure System: STANDARD-TYPE



- TYPE: IP56, outdoor rated, weather-proof design with Level 2 sound-attenuation o
- ↳ SILENCER: Residential critical-class silencer for 25dBA sound reduction
- ↳ LEVEL-2 DISCHARGE PLENUM: Dedicated enclosure compartment with built-in air deflecting baffles & completely lined with sound-absorbing material. It houses the silencer & redirects the discharge air from the radiator downwards for enhanced sound reduction
- ↳ HOT AIR DISCHARGE: Indirect, frontal-facing, horizontal air discharge outlet redirects cooling air through sound baffles to minimize sound
- ↳ ACOUSTIC INSULATION: with hydrocarbon sealing film for max sound/flame/moisture resistance
- ↳ STEEL-CONSTRUCTION: 12GA, steel-alloy panels and stainless steel hardware for enhanced corrosion protection o
- ↳ ALUMINUM-CONSTRUCTION: 12GA, aluminum-alloy panels and stainless steel hardware for maximum corrosion resistance o
- ↳ FINISH UPGRADE: Herculiner® poly-urethane & rubber granule coating for maximum chip/abrasion/solvent/corrosion/UV resistance o

## Heavy-Duty Highway Trailer



- DOT heavy-duty road/highway trailer with running lights and 7-wire connector, G.V.W.R.: 7,000 lbs o
- ↳ Dual-axle with electric brakes on all axles, battery back-up & auto breakaway system
- ↳ 4x bias 6 ply load range C tires
- ↳ 1x ea, 2 5/16" ball hitch coupler with adaptability for Lunette eye
- ↳ 1x 7K top wind tongue mounted jack, 2x 7K side wind jacks on rear, and 1/4" x 30" safety chains
- Lockable tool box and full-sized spare tire o
- Hydraulic brakes o

## Industrial-Grade Features



- 3 position voltage selector switch: 3PH low-wye, 3PH high-wye, 1PH zig-zag o
- 4-position voltage selector switch (3ph low-wye, 3ph high-wye, 3ph delta, 1ph zig-zag) o
- External shore power connector (for auto battery charger and auto coolant heater) o
- Breaker cabinet LED light with auto on/off o
- On/off battery switch o
- Enclosure lighting kit (AC/DC) o
- System-wide differential protection: LOVATO earth leakage relay o
- Single-point lifting frame kit (rated for generator-only) o

✓ = Standard Feature    o = Optional Upgrade

# Generator Photos

## ISOMETRIC VIEW



PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY  
ACTUAL PRODUCT MAY VARY

## ISOMETRIC VIEW



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# Generator Photos

## LEFT SIDE VIEW



PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY  
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## RIGHT SIDE VIEW



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