

# TD1000



## EPA Certified / Stationary Emergency

| OUTPUT POWER OPTIONS |         |              |       |       | STANDBY RATING |      | sKVA            |
|----------------------|---------|--------------|-------|-------|----------------|------|-----------------|
| Make                 | Voltage | Alternator   | Phase | Hertz | kW/kVA         | Amps | 30% Voltage Dip |
| Stamford             | 600     | S6L1D-F4-07  | 3     | 60    | 1000/1250      | 1204 | 2750            |
|                      | 277/480 | S6L1D-F4-311 | 3     | 60    | 1000/1250      | 1505 | 3550            |
|                      | 120/208 | S6L1D-F4-311 | 3     | 60    | 1000/1250      | 3474 | 2650            |
|                      | 120/240 | S6L1D-F4-311 | 3     | 60    | 1000/1250      | 3011 | 3550            |

**Engine Data**

|                                     |                          |
|-------------------------------------|--------------------------|
| Manufacturer                        | Perkins                  |
| Model                               | 5008C-E30TAG5            |
| Aspiration                          | Turbocharged             |
| EPA Tier                            | 2                        |
| Charge Air Cooling System           | Air-to-Air               |
| Arrangement                         | Vertical Inline, 4-Cycle |
| Firing Order                        | 1-4-7-6-8-5-2-3          |
| Displacement: L (in. <sup>3</sup> ) | 30.56 (1864.88)          |
| Bore: mm (in.)                      | 160.00 (6.30)            |
| Stroke: mm (in.)                    | 190.00 (7.48)            |
| Compression Ratio                   | 12.8:1                   |
| BMEP: psi (kPa)                     | 350.27 (2415.00)         |
| Net Horsepower                      | 1411.02                  |
| Rated RPM                           | 1800                     |
| Governor                            | Isochronous              |

**Engine Liquid Capacity**

|                           |                 |
|---------------------------|-----------------|
| Oil System: qt. (L)       | 161.67 (153.00) |
| Cooling Capacity: gal (L) | 36.98 (140.00)  |

**Engine Electrical**

|                     |      |
|---------------------|------|
| Electric Volts: DC  | 24   |
| Cold Cranking Amps  | 1100 |
| Battery(s) Required | 2    |

**Fuel System**

|                               |                   |
|-------------------------------|-------------------|
| Fuel Injection Type           | MEUI              |
| Fuel Pump Rate: gal/hr (L/hr) | 237.76 (900.00)   |
| Recommended Fuel              | Low Sulfur Diesel |

**Air Requirements**

|  |                 |
|--|-----------------|
| Air Filter(s) Type                             | Dry             |
| Combustion Air Flow: CFM (m <sup>3</sup> /min) | 2507.34 (71.00) |
| Maximum Air Intake Restriction                 |                 |
| Clean: in. H <sub>2</sub> O (kPa)              | 10.03 (2.50)    |
| Dirty: in. H <sub>2</sub> O (kPa)              | 15.25 (3.80)    |
| Radiator Air Flow: CFM (m <sup>3</sup> /min)   | 37,504 (1062)   |

**Exhaust System**

|   |                  |
|---|------------------|
| Gas Temperature: °F (°C)                      | 975.20 (524.00)  |
| Gas Flow: CFM (m <sup>3</sup> /min)           | 7437.28 (210.60) |
| Max Back Pressure: in. H <sub>2</sub> O (kPa) | 40.13 (10.00)    |
| Exhaust Outlet Size: in. (mm)                 | 10.63 (270.00)   |

**Sound Level**

|  |       |
|--|-------|
| Open Unit Without Exhaust: dBA 3.2 ft (1M) | 117.2 |
|--|-------|

**Filters and Quantity**

|                         |   |
|-------------------------|---|
| Air Cleaner Quantity    | 2 |
| Oil Filter(s) Quantity  | 2 |
| Fuel Filter(s) Quantity | 2 |

**Fuel Consumption**

|  |                |
|--|----------------|
| At 100% of Power Rating: gal/hr (L/hr) | 64.96 (245.88) |
| At 75% of Power Rating: gal/hr (L/hr)  | 49.18 (186.18) |
| At 50% of Power Rating: gal/hr (L/hr)  | 35.12 (132.94) |
| At 25% of Power Rating: gal/hr (L/hr)  | 17.17 (65.00)  |

**GENERAL GUIDELINES FOR DERATION:** Altitude: Derate 0.5% per 100m (328 ft.) Elevation above 1000m (3279 ft.) Temperature: Derate 1.0% per 10°C (18°F) temperature above 25°C (77°F)

**RATINGS:** All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

**125° RATINGS:** 125° apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings consult the factory. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

## Alternator Data

|                      |               |             |
|----------------------|---------------|-------------|
| Manufacturer         | Stamford      |             |
| Type                 | PMG           |             |
| Insulation Class     | NEMA H        |             |
| Temperature Rise     | 125°C Standby |             |
| Hertz                | 60            |             |
| RPM                  | 1800          |             |
| Amortisseur Windings | Full          |             |
| CFM Cooling Required | 3454          |             |
| Voltage Regulator    | MX341         | MX321       |
| Sensing              | Single Phase  | Three Phase |
| Voltage Regulation   | 1.0%          | 0.50%       |

## Features

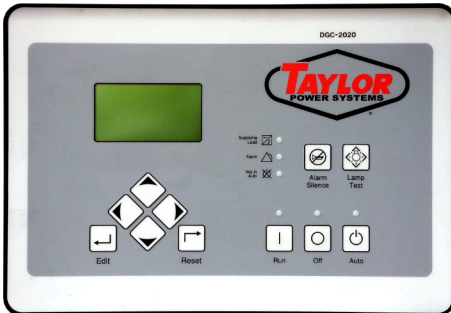
- BS EN 60034, BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, and AS1359 complaint
- IP23 enclosure
- Dynamically balanced to exceed BS6861:Part 1 Grade 2.5 vibration standard
- Quality assurance to BS EN ISO 9001
- Self-ventilated and Drip proof construction
- Two-thirds pitch stator and skewed rotor
- Heavy duty bearings
- Fully guarded
- Overexcitation protection
- Under frequency protection
- Analog input
- Overvoltage protection
- Paralleling compatible

## Control Panels



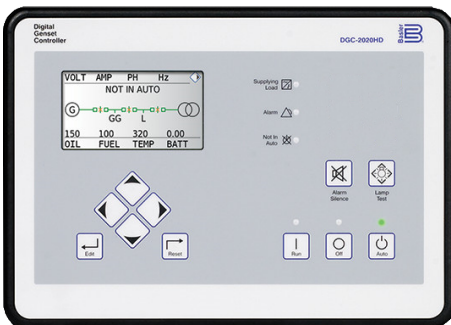
### DeepSea 7310 MKII

Simultaneous Use of RS232 & RS485  
Modbus RTU Support  
Fully Configurable Using USB, RS232 & RS485  
IP65 Rating  
6 Programmable Inputs & 8 Outputs  
UL & cUL Listed and CE Certified



### Basler DGC2020

SAE J1939 Engine ECU Communications  
4 Programmable Inputs & 10 Outputs  
Modbus Communications With RS485  
UL Recognized, CSA & CE Certified  
IP 54 Front Panel Rating  
NFPA 110 Level 1 Compatible  
Manual Override Keyswitch  
DGC2020HD Variant Available



### Basler DGC2020HD

SAE J1939 Engine ECU Communications  
16 Programmable Inputs & 12 Outputs  
Dual Copper Ethernet Ports (Fiber Optional)  
Load Sharing of kW and kVAR over Ethernet  
UL Recognized, CSA & CE Certified  
IP 54 Front Panel Rating  
NFPA 110 Level 1 Compatible  
Optional Color Touch Screen  
Manual Override Keyswitch



## Standard Features:

### Warranty

2 Year Standard

5 Year Comprehensive

|                                    |                        |
|------------------------------------|------------------------|
| Heavy Duty Steel Base              | Battery Charger        |
| Vibration Isolators                | Block Heater           |
| Oil Drain Valve with Extension     | Factory Powder Coating |
| Coolant Drain Kit                  | Factory Load Test      |
| High Ambient Unit Mounted Radiator | Owner's Manual         |

### Controller Options

Fiber Optic Ethernet (DGC2020HD)

RS-232 Port & Generator Protection (DGC2020)

Flush or Surface Mount Remote Annunciator

Remote Mount Break Glass E-Stop Switch

### Miscellaneous Options:

Generator Strip Heater

Pad Type Battery Heater

Spring Isolators

Battery Heater Blanket

Line Circuit Breaker

Oil Pan Heater

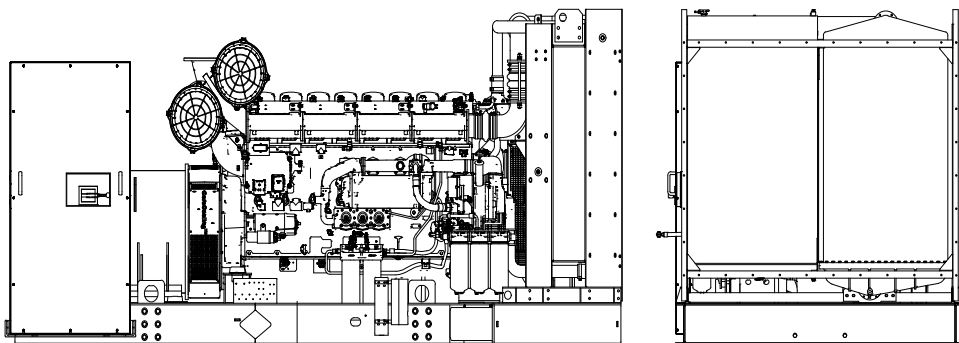
## Open Unit

### Options:

- Radiator Duct Flange
- Critical Silencer
- Sub-Base Fuel Tank

Overall Size: 185"L x 87"W x 81"H

*Note: Dimensions and weights reflect standard open unit with no options and are subject to change.*



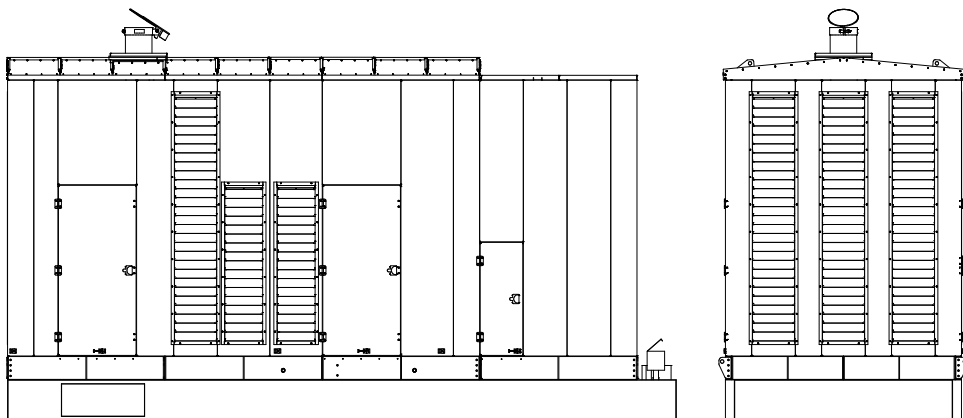
## Standard Enclosed Unit

### Options:

- Sound Attenuated Enclosure
- Load Center, Lights & GFI Receptacle
- Sub-Base Fuel Tank

Overall Size: 288"L x 110"W x 165"H

*Note: Dimensions and weights reflect standard enclosed unit with no options and are subject to change.*



**Note: The above drawings are provided for reference only and should not be used for planning installation.  
Contact your local distributor for more information.**