TM1000





OUTPUT POWER OPTIONS			75°C CON	TINUOUS	sKVA			
Operation Mode	Make	Voltage	Alternator	Phase	Hertz	kW/kVA	Amps	30% Voltage Dip
Single Genset	Marathon	277/480	573RSL4033	3	60	500/625	753	2300
		120/208	573RSL4033	3	60	460/575	1598	1730
Dual Genset		277/480	573RSL4033	3	60	1000/1250	1505	4600
		120/208	573RSL4033	3	60	920/1150	3196	3460





Engine Data (Single Genset)

Manufacturer	Volvo
Model	TWD1672GE
Aspiration	Turbocharged
EPA Tier	4 Final
Charge Air Cooling System	Air-to-Air
Arrangement	Vertical Inline, 4-Cycle
Firing Order	1-5-3-6-2-4
Displacement: L (in. ³)	16.12 (983.70)
Bore: mm (in.)	144.00 (5.67)
Stroke: mm (in.)	165.00 (6.50)
Compression Ratio	16.8:1
Horsepower	836
Rated RPM	1800
Governor	Isochronous

Engine Liquid Capacity

Oil System: qt. (L)	50.72 (48.00)
Cooling System Capacity: gal (L)	15.85 (60.00)

Engine Electrical

Electric Volts: DC	24
Cold Cracking Amps	2200
Battery(s) Required	2

Fuel System

Fuel Pump Rate: gal/hr (L/hr)	55.48 (210.00)
Return Rate: gal/hr (L/hr)	6.60 (25.00)
Supply Max. Restriction: psi (kPa)	4.35 (30.00)
Max Fuel Inlet Temp.: °F (°C)	140.00 (60.00)
Recommended Fuel	Ultra Low Sulfur Diesel

Air Requirements

Air Filter(s) Type	Dry
Combustion Air Flow: CFM (m³/min)	1626.6 (46.1)
Cooling Air Flow: CFM (m³/min)	29876 (846)
Max Air Intake Restriction: in. H₂O (kPa)	20.1 (5.0)

Exhaust System

Gas Temperature: °F (°C)	793.4 (423.0)
Gas Flow: CFM (m³/min)	4025.9 (114.0)
Max Exhaust Back Pressure: in. H ₂ O (kPa)	76.3 (19.0)
Exhaust Outlet Size: in (mm)	8.00 (203.2)

Filters and Quantity

Air Cleaner Quantity	1
Oil Filter(s) Quantity	1
Fuel Filter(s) Quantity	2

Fuel Consumption - 105°C

At 100% of Power Rating: gal/hr (L/hr)	30.30 (114.71)
At 75% of Power Rating: gal/hr (L/hr)	22.96 (86.91)
At 50% of Power Rating: gal/hr (L/hr)	15.93 (60.29)
At 25% of Power Rating: gal/hr (L/hr)	9.09 (34.41)

DEF Consumption - 105°C

At 100% of Power Rating: gal/hr (L/hr)	2.00 (114.71)
At 75% of Power Rating: gal/hr (L/hr)	1.68 (86.91)
At 50% of Power Rating: gal/hr (L/hr)	1.05 (60.29)
At 25% of Power Rating: gal/hr (L/hr)	0.56 (34.41)

Cooling System

Rejection to Charge Cooler: kW (BTUM)	187 (10635)
Rejection to Coolant & Oil: kW (BTUM)	203 (11544)
Rejection to Radiation: kW (BTUM)	24 (1365)
Rejection to Exhaust: kW (BTUM)	409 (23259)
Coolant Flow: gal/min (L/min)	95 (360)



Alternator Data

Manufacturer	Marathon
Type	PMG
Insulation NEMA Rise/Temp	NEMA Class N/75°C
Hertz	60
Phase	3
RPM	1800
Leads	12
Amortisseur Windings	Full
CFM Cooling Required	1400
Voltage Regulator	PM500
Sensing	Three Phase
Voltage Regulation, No Load - Full Load	0.25%

DeepSea 8610 MK II Digital Controller

- Full synchronizing & loadsharing capabilities
- Built in governor and AVR control
- Base load control
- Positive & negative kVAr control
- Mains (utility) decoupling protection
- 3 phase generator sensing and protection
- Generator current and power monitoring
- Over current protection
- Unbalanced load protection
- Breaker control via fascia buttons
- Back-lit LCD display
- Remote SCADA monitoring

Features

- NEMA MG1-32, BS5000, and IEC 34-1 compliant; CE & CSA Certified and UL Listed
- Self-ventilated and drip proof construction
- Two-thirds pitch stator and skewed rotor
- Wet wound, epoxied field windings
- Designed to withstand overspeeds of up to 125%
- Hybrid analog/digital voltage regulator
- Under frequency protection
- Under frequency indication light
- Less than one cycle response time
- Over excitation protection
- Over excitation indication light
- Easy access front-panel adjustments
- Over voltage protection shutdown
- Analog input for paralleling





Deep Sea 8004 Remote Display Module

- External operation of both gensets
 - LCD touch-screen
 - Audible alarm •
 - Configurable display options
 - Trend Analysis •
- Configurable graphical user interface with software 'widgets' •



Tier 4 Final Compliant
External Operation Panel
High Ambient Radiator
Isochronous Governor
Side Maintenance Access Doors
Integral 120/240V Load Center

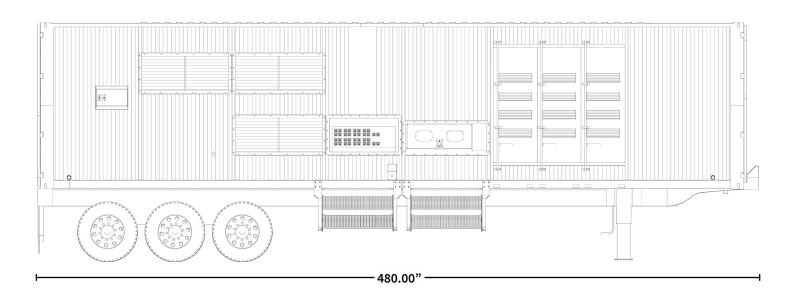
Standard Features

Automatic Single or Dual Genset Operation Based on Load

Cam-Lok Receptacles
External Fuel & DEF Fill
Sound Attenuated Container
Independent Breaker for Each Genset

Dual Fuel & DEF Tanks for 24 Hour Runtime

Block Heaters & Battery Chargers
(4) Unit Mounted Emergency Stops
Factory Load Test
One Year Warranty



Sound Attenuated Enclosed Unit

OVERALL SIZE: 480"L x 95.75"W x 163.25"H Approximate Shipping Weight: 55,680 lbs.

Note: Dimensions and weights reflect standard unit and are subject to change. Drawings are provided for reference only and should not be used for planning installation.

