

ENGINE

- Volvo® TAD1642GE - turbocharged, diesel engine
 - Standby - 796 hp @ 1800 rpm
 - Prime – 724 hp @ 1800 rpm
 - 6 cylinder
 - 16.0 L displacement
 - Flex Tier 2 approved
- Steel, double wall fuel tank
 - 653 gal. (2472 L) capacity
 - 18 hr. run time – full load
 - Fuel tank built into skid of generator set
 - 120 % containment
- Fuel consumption at prime:
 - 100% - 32.8 gph (124 Lph)
 - 75% - 23.7 gph (90 Lph)
 - 50% - 16.3 gph (62 Lph)
- Fuel transfer pump with 3-way valve
- Cooling system capable of operating at 115°F (46°C) ambient
- Low coolant shutdown
- Radiator and oil drains plumbed to exterior
- Rubber vibration dampers isolate engine/generator from frame
- 2,500W In-line engine block heater
- Disposable air filter - paper element
- Air filter restriction indicator
- Variable speed clutch fan
- Electronic isochronous governing



GENERATOR

- Marathon Electric® SUPERSTART™
 - Brushless
 - PMG Generator - critical grade power quality
 - 4 pole
 - Class H insulation
- Voltage regulation +/- 0.25% with Marathon DVR®2000E+ Voltage Regulator

SYSTEM OUTPUT

- Dedicated 480V standard:
 - Three phase – 277 / 480V High Wye
 - 550 kW / 688 kVA – standby, three phase
 - 503 kW / 629 kVA – prime, three phase

SYSTEM CONTROLS

- Power Zone® paralleling controller and display
 - Backlit, 800 x 480 pixel resolution color display
 - -40°F to 185°F (-40°C to 85°C) operating temperature range
 - Automatic coarse voltage adjustment
 - Integrated fine voltage adjustment
 - PLC functionality
- Push buttons for easy operation
 - Manual or Auto Start
 - Engine Start
 - Engine Stop/Reset
 - Alarm Mute
 - Operator Screens
 - Home
 - Engine
 - Generator
 - Voltage Adjust
 - Scrolling Arrows for Diagnostic Information
 - Engine diagnostic display
 - Oil pressure
 - Engine temperature
 - Fuel level
 - Battery
 - After treatment inlet/outlet temperature
 - Ash/soot levels
 - Generator diagnostic display
 - System kW output display
 - Line output & frequency display
 - Alarms
 - Warning
 - Shutdown
 - Electrical Trip
 - Engine
 - Alarm list – warnings / shutdowns; 250 event history log – date/time stamp
 - Fuel level: warning – 15%; shutdown – 5%
 - Over speed protection: shutdown – 115%
 - Oil pressure: warning – 27 psi; shutdown – 23 psi
 - Coolant temp: warning – 208°F (98°C); breaker trip – 214°F (101°C) Shut down - 217°F (103°C)
 - Battery voltage: over – 26.5VDC; under – 22VDC
 - Generator over voltage: warning – 110%; electrical trip – 111%
 - Generator under voltage: warning – 87%; electrical trip – 86%
 - Generator over frequency: warning – 105%; electrical trip – 110%
 - Generator under frequency: warning – 95%; electrical trip – 90%

SYSTEM CONTROLS (continued)

- Inputs/Outputs
- Auto Schedule
- Status
- Configuration of controller, firmware and connections
- Key load share features
 - Sequential set start
 - Manual voltage/frequency adjustment
 - R.O.C.O.F. and vector shift protection
 - Generator load demand
 - Automatic hours run balancing
 - Mains (Utility) de-coupling
 - Mains (Utility) de-coupling test mode
 - Dead bus sensing
 - Bus failure detection
 - Direct governor and AVR control
 - Volts and frequency matching
 - kW and kV Ar load sharing
 - Dead bus synchronizing

ELECTRICAL CONTROLS

- Remote start / stop contacts located next to lug box
- Lockable control box door with diagnostics window
- Lockable lug box with safety switch
 - Trips main breaker when lug door is opened
 - Disables voltage regulator
- Output ground connection lug inside lug box
- 1200/2000A motorized main breaker with shunt trip
- Camlocks
- Power distribution lighting
- Convenience receptacles with individual breakers
 - (2) 120V 20 Amp GFCI duplex outlets (NEMA 5-20R type)
 - (3) 120/ 240V 50 Amp, 3 pole, 4 wire Twistlock (Non-NEMA 6369)
 - Buck Transformer kit – Provides 120V at GFCI outlets when in 277/480V
- (2) 950 CCA wet cell batteries
 - Battery disconnect switch
 - 10A battery charger

ENCLOSURE

- Aluminum, sound attenuated enclosure
 - UV & fade resistant, high temperature cured, white polyester powder paint
 - Insulated and baffled
 - Cabinet lighting
 - 83 dB(A) @ 23 ft. (7 m) – prime power
- Fully lockable enclosure including doors and fuel fill
- Stainless steel hinges on doors
- Emergency stop switch located on outside of enclosure
- Central lifting point
- Multi-lingual operating/safety decals
- Document holder with operating manual including AC/DC wiring diagrams

TRAILER

- DOT approved tail, side, brake, and directional lights
 - Recessed rear lights
 - LED
- Transportation tie downs
- Safety chains with spring loaded safety hooks
- 3 in. (76.2 mm) lunette ring hitch
- (3) 8000 lb. (3629 kg) axles with electric brakes
- 12000 lb. (5443 kg) tongue jack with footplate
- ST215/75R17.5 tubeless tires – 16 ply
- Rear stabilizer jacks
- NATM compliant

WEIGHT & DIMENSIONS

Skid mounted

- Dry weight: 13,990 lbs (6,345 kg)
- Operating weight: 18,750 lbs (8,505 kg)
- 212 x 75 x 110 in. (5.4 x 1.9 x 2.8 m)

Trailer mounted

- Dry weight: 17,240 lbs (7,820 kg)
- Operating weight: 22,000 lbs (9,979 kg)
- 264 x 102 x 129 in. (6.7 x 2.6 x 3.3 m)

WARRANTY

1 Year/Unlimited hours; 2 Years / 2000 Hours*

**Consult factory for details*

CERTIFICATIONS

CSA Certified