

**Builders of quality Rail Generator systems since 1990.**

Ready-to-install packaged low profile diesel generator systems. Purpose built for the rigorous environmental demands for mounting underslung on passenger railcars. Designed to provide continuous, prime or auxiliary power in a high quality, reliable, easy to operate and maintain package. Designed with the needs of the commercial owner/operators in mind.

**Complete factory engineered package:**

Basically, this package is a sociable prime power system designed to run 24/7 in demanding environments, with proper maintenance. Requires minimal field engineering for on-site installation. Installation requires: furnishing unit support members, connect fuel supply piping to outside fittings, mount muffler & tailpipe, connect remote control panel wiring, furnish load wiring and furnish 12V battery.

***Perimeter Frame & Full Enclosure:***

Box-beam frame is designed to withstand high coupling impact. Full enclosure equipped with multi-layer sound absorbing material for quiet operation. Engine/Generator unit mounted with high performance vibration isolators and crash stops.

**Heavy Duty Industrial Quality:**

Capable of sustained heavy duty power output at continuous power, but also engineered to minimize carbon build-up or wet stacking conditions common with extended light duty operation. Expect normal service life of over 15,000 hours before overhaul

**Emissions Compliant:**

## Meet EPA Tier 4 Final emissions regulations.

**Complete Control System:**

Standard control configuration includes: control interface wiring harness, wired to distribution box to provide for choice of Remote control panels. Choice of Remote (In-car) control panels optionally available from Stadco or Stadco approved third party supplier.

### ***Simplified Routine Maintenance Procedures:***

All routine service points within reach of dual service access doors. Removable panels front, back and top for major service access and routine oil drain.

**Cooling Air Filter:**

Cooling air stream is filtered. Extended life, easy cleaning, filter system to minimize cooling system cleaning requirements. Reduces dirt accumulation inside enclosure and radiator.

### **Installation Flexibility:**

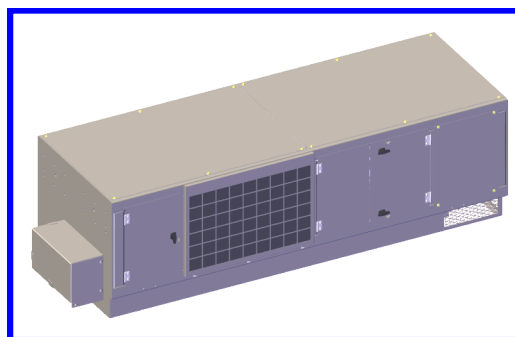
Designed for installation underneath railcar frame. Steel plate mounting points provided at both ends to accept customer supplied brackets (or optional Stadco mounting kits) for mounting unit to railcar frame. Installation instructions are included with operators manual.

**Single Source Responsibility:**

Stadco is the single source, full service supplier for Railgens. ***We design it - We build it - We support it.*** Stadco warranty policy covers entire unit for 24 months or 3000 hours - Refer to D34 Limited Warranty policy on Stadco website for details.

### Comprehensive Product Support:

- Comprehensive stock of spare parts.
- Full shop services.
- Road services.
- Complete rebuilding services.
- Phone technical support.



### Model 6-80T4F

- a. Refer to Stadco Sales Specifications S32 for more complete data.

42 kW, Model 6-42T4F: Enclosure size (Approx.): 72"L x 32"W x 30"H, Approx. Weight - 1790 Lbs.

50 kW, Model 6-50T4F: Enclosure size (Approx.): Approx. Weight - TBD

80 kW, Model 6-80T4F: Enclosure size (Approx.): 103"L x 36"W x 32"H, Approx Weight - 3126 Lbs.



## **MARK 6 SERIES RAILGEN**

**Quality Rail Generator Systems since 1990**



### **STANDARD EQUIPMENT:**

1. Premium quality Deutz diesel engine prime movers operating at 1800 RPM for longevity, reliability and quiet operation. All engines are EPA Tier 4 Final certified for exhaust emissions compliance. Deutz engines have a proven track record for exceptional field reliability. Fuel economy is exceptional on all models.
2. Generator: Direct coupled, Class H insulation. Electronic voltage regulation. Operated at Continuous duty rating to allow for moderate non-linear (unbalanced) phase loading.
3. Available Dual-station control system offering an Engine start & stop panel, plus a main Remote control panel for in-car mounting. Engine specific digital protection system monitors engine operating condition continuously. Details of Digital AC and DC control systems are available in Bulletin #S232.
4. Welded box-beam steel unit frame supports generator set and protective enclosure. Steel plate mounting points provided at both ends to accept mounting kits or roll out track kits for attachment to railcar.
5. Complete enclosure equipped with multi-layer sound absorbing material for quiet operation. Sheet steel construction with air intake plenum. Filter (foam media) for cooling air inlet; provided to keep interior and radiator clean. Two service access doors, plus removable access panels on all sides.
6. Heavy duty dry air cleaner with dual safety elements and rotary type pre-cleaner. Air cleaner service indicator gauge. Provides a 4-Stage combustion air filtration system.
7. Critical quality muffler with 10' of S.S. flex tailpipe. Furnished loose for on-site installation.
8. Load circuit breaker: **None.** (Must be Customer Supplied).
9. Power distribution box for load and control terminals. All control circuits and load circuits wired to terminal strips.
10. Battery box and battery cables are standard. Mounted externally.
11. Fuel system: fuel transfer pump, Racor remote auxiliary water separator filter and fine secondary filter.
12. Cooling system: Purpose designed heavy duty welded aluminum heat exchanger radiator with pressure rating many times stronger than a conventional radiator. May be cleaned with a low pressure washer. Operates with cool air flow within the enclosure.

### **SUMMARY:**

Reference documentation: S32 Sales Specifications, S232 Control System, D34 Rail Warranty statement, P23 Price List. **Request Railgen marketing package for complete set of information, data and pricing.**

### **Supporting Members of RPCA**

### **RELATED PRODUCTS:**

- ♦ **Stadco CD Compact skid base generators: Available in 10, 15, 22, 42, and 50 kW sizes.**
- ♦ **Stadco skid base type Railgen generator sets. Available in 80, 100, 200, and 475 kW sizes.**
- ♦ **Web Support: Visit [www.stadcogen.com](http://www.stadcogen.com) for sales & product support information.**

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