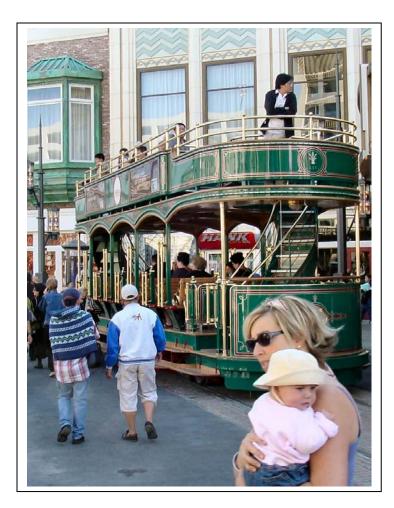


The Farmers Market Trolley at the Grove in Los Angeles is a battery powered inductively charged steel Trolley The PLC Trolley is derived from our Farmers Market Trolley with much of its elegant styling and details, yet creating a distinctly different look unique to the Puerto Los Cabos environment.

















THE FARMERS MARKET TROLLEY

DESIGNED TO BE A PEOPLE PLEASER, AND SO IT IS



Trolley System Spec (Farmers Market Trolley)

SYSTEM CAPACITY

TROLLEY CAPACITY: 70 passengers THROUGHPUT: 560 passengers per hour MAXIMUM WAIT TIME: 15 minutes ONE WAY TRAVEL TIME: approx. 5 minutes NUMBER OF INTERMEDIATE STOPS: 3 stops INTERMEDIATE STOP DWELL TIME: 1 minute END OF TRAVEL CHARGING STOPS: 1 stop near storage barn CHARGING DWELL TIMES: 3 - 4 minutes OPERATING HOURS: 9 A.M. - 10 P.M. daily

TRAIN PERFORMANCE

OPERATIONAL SPEED: 6-8 Mph MAXIMUM SPEED: 30 mph GRADE: 7% max ACCELERATION: 0.1-g (0.125-g max) DECELERATION: 0.1-g (0.125-g max) E-STOP: 0.15-g (0.3-g max) 3-sec, 22.4-ft DIRECTION: reversible TRAVEL DISTANCE: 1230 ft.

TROLLEY DESIGN

LENGTH: 31' 8 HEIGHT: 13' 4" (top of finial) MAX WIDTH: 10' 5" (running boards) COACH WIDTH: 7'-4 ½" (lower level) ESTIMATED WEIGHT: 41,400 lbs. PASSENGER LIVE LOAD: 11,900 lbs. (170 lbs. each) TOTAL WEIGHT: 53,300 lbs. FRAME: steel RAIL: ASCR 60# minimum TRACK GAUGE: 4' 8-1/2" standard guage rail TRUCKS: two trucks. Two axles each truck, steered optional COMMUNICATIONS: PA with 4-microphone jack locations: one at each operator console and one each directly above at upper deck

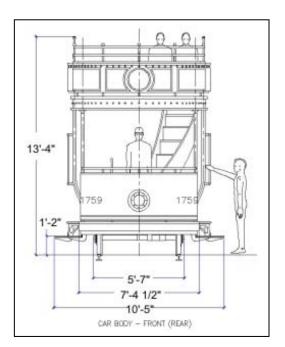
HANDICAP: wheelchair lift and tie-down provisions

PROPULSION, BRAKING AND SENSING

- MOTORS: 300 VAC 20 HP (4 per train). Each axle is powered with an electric motor
- MOTOR CONTROLS: variable frequency drive. Operator speed control
- MOTOR SENSING: encoder for each motor
- SECONDARY POSITION SENSING: in ground magnets and onboard reciever
- NORMAL BRAKING: a fail safe is mounted to the back of each motor
- E-STOP & amp; PARKING BRAKE (OPTIONAL): wheel shoe brakes (4 per train)
- POWER: 300 VDC (quantity 26, 12 VDC sealed lead acid batteries)
- E-STOP INTERLOCKS: operator dead-man switch, under chassis trip hazard bar, (collision avoidance sonar with adjustable distance optional at extra cost)

CHARGING SYSTEM

TYPE: contactless inductive power transfer at one location THREE COUPLINGS: three phase power SUPPLY VOLTAGE: 480 VAC POWER TRANSFER CAPACITY: 30kW (10kW/phase) TROLLEY NET CONSUMPTION: 0.75-1.0 kWh/trip







TRANSPORTATION INNOVATIONS GROUP

A DIVISION OF ENTERTAINMENT ENGINEERING 2025 N. GLENOAKS BLVD. SUITE 201 BURBANK, CA 91504 PH 818.954.9100 FX 818.954.8994

UNIQUE FEATURES of TIG TROLLEYS

May 16, 2006

- 1- Our Trolleys as well as our other vehicles are state-of-the-art Electric Vehicles using the best components available today, built for transit service, but also operating as amusement rides.
- 2- All of our vehicles are custom designed, using all new materials and components. Our trolley trucks are newly rebuilt from the original classic PCC streetcar trucks. For Trolleys, we can reproduce any classic trolley from the past, and put them into service without the need for overhead power lines, and can deliver them using steel wheels and rails, or alternatively, using rubber tires and electronic guidance systems.



3- We are open to using any available battery systems, but presently find the use of sealed

- 3- We are open to using any available battery systems, but presently find the use of sealed (low maintenance) lead acid batteries to be the most cost effective. We use the type of battery commonly known as "gel cells", and also known as absorbed glass mat (AGM) valve regulated lead-acid (VRLA). With opportunity charging, energy balancing devices, and voltage and temperature monitoring, we can achieve up to 5 years life on a battery that presently costs about \$200 per 12V package.
- 4- Handicapped access is guaranteed by the use of ADA compliant wheelchair lifts on all of our vehicles.
- 5- Our Trolleys are designed to be an attraction all by themselves, and to further attract people to the environments in which they operate. This is accomplished by themeing, art direction, careful attention to every detail, and the very best workmanship.

6- Any Trolley configuration can be designed and built on our electric vehicle platform. This

includes double or single decks, open or closed, with heating and air-conditioning in harsh environments, with any style of decorative lighting, and a full compliment of electronic entertainment and audio systems are available on special order.

- 7- Battery powered vehicles can safely operate in any environment for they emit no pollutants, and are ideally suited for indoor use.
- 8- The energy cost to operate our electric vehicles is less than half the cost of a vehicle powered by fossil fuels.
- 9- Our vehicles are designed and built in accordance with industry standards for "Amusement Rides and Devices" as governed by ASTM Committee F24. This incorporates many other standards such as UL, IEEE, etc. In addition, ASCE standards for transportation vehicles are followed where applicable. Our vehicles are generally designed for service in low speed pedestrian corridors, but are capable of operating in higher speed environments.



10- We also follow the APTA standard for vintage/heritage trolley vehicle equipment APTA-SS-HT-001-05.

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TRANSPORTATION INNOVATIONS GROUP



EEI/TIG is a full service design/builder of turn-key Transportation Systems. We provide a full range of fully automated to manually operated vehicles for any application.



Automated/Manual Tram systems



APM Wire Guidance Demonstration San Diego Zoo's Wild Animal Park December 2, 2005

Automated/Manual People Movers

Personal Rapid Transit

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