



“TROJAN’S HIGH-QUALITY, U.S.-MADE VRLA BATTERIES HAVE A PROVEN TRACK RECORD OF PROVIDING A HIGH-LEVEL OF RELIABILITY, EXTENDED LIFETIME, GREATER LONG-TERM PERFORMANCE THAN THE COMPETITION, MAKING THEM THE IDEAL CHOICE FOR BATTERY BACKUP FOR MTC TOUCH TELECOMMUNICATIONS LOCATIONS.”

*Mahmoud Awad, PowerTech*

## **Battery Backup**

Beirut, Lebanon

### **System specifications:**

- **Batteries:** (80) Trojan 22-AGM deep-cycle VRLA batteries
- **UPS System:** (2) 60kVA UPS units with (40) Trojan 22-AGM batteries per unit
- **Battery Bank Voltage:** 480V
- **Inverter:** GE Digital Energy
- **Equipment Supported:** Telecom data center equipment

MTC Touch is Lebanon’s largest telecom, mobile provider serving an estimated 80 percent of the country’s population. The company’s motto, “Stay connected to your business on the move!” illustrates the company’s commitment to ensuring both its business and general consumer customers are always connected via its mobile communications network, which is a challenge in a region prone to frequent power outages.

Offering reliable end-to-end wireless service to its customers requires a reliable foundation of telecommunications equipment and power to ensure the MTC system operates with no downtime. To achieve this, MTC required a power backup system that provided an extended duration of backup power to guarantee uninterrupted operation of its data center in case its diesel genset system failed to start. Since normal UPS batteries only offer a few seconds of power, deep-cycle batteries were selected because they will operate for hours before needing a recharge.

In addition, MTC wanted to invest in a long-term solution using battery technology with proven extended life to avoid frequent battery replacements. To achieve this, Power Tech, a distributor of Trojan deep-cycle batteries, was assigned the task of creating an integrated power backup system based on Trojan’s reliable deep-cycle batteries which could effectively support the data center’s existing UPS batteries which operate MTC equipment.

“As the nation’s leading provider of mobile telecommunications services, MTC needed a reliable power backup system that could enable its operations to avoid being affected by these frequent power outages,” said Mahmoud Awad, purchasing manager at PowerTech. “Customers must be confident that MTC will enable them to send and receive emails instantly, wirelessly synchronize calendar and contacts, make and receive calls, and access the Web anytime, anywhere.”

The success of the company and its operations is dependent on ensuring high reliability and availability of its services to customers across Lebanon. MTC operates two UPS 60KVA units for telecom backup, with 80 Trojan deep-cycle 22-AGM batteries in racking systems serving as a standby emergency backup power source. Trojan batteries are ready at any time to support the power needs of the MTC telecommunications network.

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Trojan's 22-AGM battery is designed to power critical data networks, high-speed data transmission, and wireless communication systems in the event of unexpected power outages common in regions with an instable grid. Providing maintenance-free convenience that requires no watering, exceptional performance and long life with a robust AGM plate design, Trojan's 22-AGM deep-cycle battery incorporates several unique features that enhance performance durability and safety. Its strong polypropylene case protects the battery against damage in heavy-service applications, and features a rugged construction design for improved vibration resistance.



In addition, the Trojan 22-AGM incorporates a computer-generated grid design that is optimized for high-power density, while its low internal resistance provides a higher discharge current and higher charging efficiency. The low calcium grid alloy reduces gas emissions and a flame arresting, one-way pressure relief vent prevents buildup of excessive pressure. The Trojan 22-AGM also is certified as a Sealed/Non-spillable (UN2800) battery approved for air, sea and ground transportation.



Trojan's deep-cycle batteries have proven to be the most reliable solution to power a wide range of telecommunication data centers, ensuring reliable wireless communication service to customers in diverse regions around the world. The Trojan 22-AGM battery's unique configuration enables MTC Touch to provide secure, consistent and sustainable service throughout the country for its customers.

**For more information:**  
**Trojan Battery Company**  
[trojanbattery.com](http://trojanbattery.com)

**PowerTech**  
[www.powertech.com.lb](http://www.powertech.com.lb)



Trojan batteries are available worldwide.  
We offer outstanding technical support, provided by full-time application engineers.  
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