



XFC
POWER
SYSTEMS

Two-Way portable radios Power Systems

Patent US 11,784,508 B1 Oct. 10, 2023

XFC Power Systems Disruptive Value Proposition

Mission Critical Two-Way portable radios for EMT, Police, Fire Departments, and FEMA to name few, are essential communication tools needed by personnel to perform their jobs in daily operations and in the most unexpected and critical situations, they need uninterruptable communications. Two-way radios are dependent on battery systems to operate, and they are often the weakest element of the total system.

This XFC (Extremely-Fast-Charging) Power Systems proposal delivers a solution that allows us to NEVER lose power on any Mission Critical situation for a much longer time than existing solutions with a convenience that is second to none.

XFC Power Systems Comparison Table

XFC Power Systems designs and manufactures in the USA two-way portable radios Power Systems with a complete portfolio of six products summarized in the table below that compare them to existing solutions.

Product	XFC NEW Generation	OLD Generation	Enhancement
1. A new high-power battery pack			
Patented Design	US 11,784,508 B1	no patent	
Charge time (0%-100%)	<15 minutes	4 hours	16 times faster
Cycle Life (complete charge-discharge cycles)	>800	400	2 time longer
Mission availability (time spent not charging)	98%	70%	ROI impact
2. A new high-Power AC individual slot charger			
	allows <15 minutes charge	allows 4 hours charge	16 times faster
3. A new high-Power AC multiple slot charger			
	allows <15 minutes charge	allows 4 hours charge	16 times faster
4. A new high-Power DC individual charger (car, truck, EMT vehicle cigarette lighter)			
	allows <15 minutes charge	Not available	very high convenience
5. A new high-Power AC Power-Bank			
	allows 4 charges <15 minutes charge	Not available	very high convenience
6. A new State of Health Diagnostic Tester			
	Battery Replacement	requires radio test	very high convenience

Key Benefits impacting the ROI

- **Extremely fast charging:** charges a completely depleted battery in less than 15 minutes, this is 16 times faster than existing solutions taking 4 hours to charge.
- **Unmatched uptime higher than 98%:** allows the radio to be used more than 98% of its time for critical missions, unlike existing solutions permitting only 70%, the remaining time used for charging the battery.
- **Longest Cycle Life, best ROI:** more than 800 full cycles, this is at least 2 times longer than existing solutions with 400 cycles. With extremely faster charge times and longer cycle life, XFC Power Systems can significantly reduce your level of investment to support your battery systems and maintenance requirements - fewer batteries, chargers and personnel are required which substantially lowers your total cost of ownership.

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XFC Value proposition comparison table v13
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