



ANDRITZ BITRODE FTF

E-MOBILITY AND ENERGY STORAGE TEST SYSTEM

KEY FTF DIFFERENCES AND ADVANTAGES

All FTF systems share the same high-accuracy, continuous-duty architecture and unified software ecosystem, yet each model is tailored to distinct voltage and power requirements. The standard FTF supports 33–1000 V and up to 1.2 MW, delivering versatile performance for EV battery cycling, inverter evaluation, and a wide range of energy-storage applications. The FTF-HV expands capability to 100–1500 V while scaling to 2.4 MW, making it ideal for high-voltage packs and next-generation EV architectures. For applications demanding extreme power, the FTF-HP delivers up to 2.6 MW of high-current capability for microgrid, drivetrain, heavy equipment and generator testing. While all models offer advanced features like battery simulation, CAN/CAN-FD integration, and dual-output configurations, the FTF-HV stands out for its elevated voltage range, and the FTF-HP for its unmatched ultra-high-power performance.

KEY FEATURES:

- IGBT-Based Inverter for High-Performance
- 100% Duty Cycle at Maximum Power
- High-Accuracy CC/CV/CP Control
- Drive Cycle simulation
- Energy-Efficient through regeneration to the grid.
- Full Automation & Data Management with VisualLCN™



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FTF/FTF-HP

High Power Pack Testing System

A high-power, scalable test system delivering precise control and continuous operation, supporting outputs up to 2.6 MW for demanding energy-storage and power-conversion applications.

FTF-HV

High Voltage Pack Testing System

Delivers high-voltage battery-pack testing up to 1500 V with fast response, high accuracy, and built-in safety. Its scalable design supports up to 2.4 MW.

VIEW MORE FTF



GENERAL SPECIFICATIONS

Number of Circuits	FTF 1/FTF 2	FTF1-HP/FTF2-HP	FTF1-HV/FTF-HV
Voltage Configurations	33–500 V; 40–700 V; 58–1000 V	33–500 V; 40–700 V; 58–1000 V	100–1500V
Zero Volt Option Available?	Yes	Yes	Yes
Accuracy: Current	±0.05% FSR	±0.05% FSR	±0.05% FSR
Accuracy: Voltage	±0.1% FSR	±0.1% FSR	±0.1% FSR
Peak Efficiency	> 92%	> 92%	> 92%
THD	≤ 5%	≤ 5%	≤ 5%
Power Factor	≥ 0.98	≥ 0.98	≥ 0.99
Current Rise Time	≤ 4 ms	≤ 4 ms / ≤ 8 ms (see specific configuration)	30 ms
Pulse Width	10 ms	10 ms / 20 ms (see specific configuration)	100 ms
Switching Time	Zero	Zero	Zero
Overshoot	None	None	None
Data Acquisition Rate	10 ms (1 ms optional)	10 ms (1 ms optional)	10 ms (1 ms optional)
Interface	Ethernet	Ethernet	Ethernet
Noise Output Level (typical at max power at 12 ft)	Under 75 dBA	85–90 dBA	90 dBA
Operational Temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C
Input Voltage	380/400/415/480 V ±10% 3 Φ (50/60 Hz)	380/400/415/480 V ±10% 3Φ (50/60 Hz)	380/400/415/480 V ±10% 3Φ (50/60 Hz)