

WFM200BC External Battery Charger Instructions



Safety Summary

Review the following safety precautions to avoid injury and prevent damage to this product or any products connected to it.

To avoid potential hazards, use this product only as specified.

To Avoid Fire or Personal Injury

Use proper power cord. Use only the power cord specified for this product and certified for the country of use.

Power disconnect. Remove the power cord of the external AC adapter to disconnect mains power from the product.

Use proper battery charger. Use only the WFM200BC charger or the WFM2200 waveform monitor to charge the WFM200BA Lithium-Ion battery pack.

Do not operate without covers. Do not operate this product with covers or panels removed.

Do not operate with suspected failures. If you suspect there is damage to this product, have it inspected by qualified service personnel.

Avoid exposed circuitry. Do not touch exposed connections and components when power is present.

Do not operate in wet/damp conditions.

Keep product surfaces clean and dry.

Use proper AC adapter. Use only the AC adapter specified for this product.

Safety Terms in This Manual

 **WARNING.** Warning statements identify conditions or practices that could result in injury or loss of life.

 **CAUTION.** Caution statements identify conditions or practices that could result in damage to this product or other property.

Symbols and Terms on the Product

These terms may appear on the product:

- **DANGER** indicates an injury hazard immediately accessible as you read the marking.
- **WARNING** indicates an injury hazard not immediately accessible as you read the marking.
- **CAUTION** indicates a hazard to property including the product.



CAUTION
Refer to Manual

Compliance Information

This section lists the EMC (electromagnetic compliance), safety, and environmental standards with which the instrument complies.

EMC Compliance

EC Declaration of Conformity – EMC

Meets intent of Directive 2004/108/EC for Electromagnetic Compatibility. Compliance was demonstrated to the following specifications as listed in the Official Journal of the European Communities:

EN 55103:1996. Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use. ¹

- Environment E2 – commercial and light industrial EMC environment
- Part 1 Emission
 - EN 55022:1987. Class B radiated and conducted emissions
 - EN 55103-1:1996 Annex A. Radiated magnetic field emissions

- Part 2 Immunity
 - IEC 61000-4-2:2001. Electrostatic discharge immunity
 - IEC 61000-4-3:2006. RF electromagnetic field immunity
 - IEC 61000-4-4:2004. Electrical fast transient / burst immunity
 - IEC 61000-4-5:2005. Power line surge immunity
 - IEC 61000-4-6:2003. Conducted RF Immunity
 - IEC 61000-4-11:2004. Voltage dips and interruptions immunity
 - EN 55103-2:1996 Annex A Radiated magnetic field immunity

¹ Inrush current: 13.5 A peak.

EN 61000-3-2:2006. AC power line harmonic emissions

EN 61000-3-3:1995. Voltage changes, fluctuations, and flicker

European contact. Tektronix UK, Ltd.

Western Peninsula
Western Road
Bracknell, RG12 1RF
United Kingdom

Australia / New Zealand Declaration of Conformity – EMC

Complies with the EMC provision of the Radiocommunications Act per the following standard, in accordance with ACMA:

- EN 55022:1987. Radiated and conducted emissions, Class B, in accordance with EN 55103-1:1996.

Australia / New Zealand contact.

Baker & McKenzie
Level 27, AMP Centre
50 Bridge Street
Sydney NSW 2000, Australia

Environmental Considerations

This section provides information about the environmental impact of the product.

Product End-of-Life Handling

Observe the following guidelines when recycling an instrument or component:

Equipment recycling. Production of this equipment required the extraction and use of natural resources. The equipment may contain substances that could be harmful to the environment or human health if improperly handled at the product's end of life. In order to avoid release of such substances into the environment and to reduce the use of natural resources, we encourage you to recycle this product in an appropriate system that will ensure that most of the materials are reused or recycled appropriately.



This symbol indicates that this product complies with the applicable European Union requirements according to Directives 2002/96/EC and 2006/66/EC on waste electrical and electronic equipment (WEEE) and batteries. For information about recycling options, check the Support/Service section of the Tektronix Web site (www.tektronix.com).

Restriction of Hazardous Substances

This product is classified as Monitoring and Control equipment, and is outside the scope of the 2002/95/EC RoHS Directive.

Product Description

The Tektronix WFM200BC External Battery Charger is intended for use with only the Tektronix Lithium-Ion WFM200BA Rechargeable Battery Pack.

NOTE. Refer to the WFM200BA Rechargeable Battery Pack Instructions (Tektronix part number 075-1041-XX) for information on storage, transportation, and end-of-life recycling or disposal of the Lithium-Ion battery pack.

International Power Cords

Your product was shipped with one of the following power cord options. Power cords for use in North America are UL listed and CSA certified. Cords for use in areas other than North America are approved by at least one authority acceptable in the country to which the product is shipped.

- Opt. A0 – North America power
- Opt. A1 – Universal EUR power
- Opt. A2 – United Kingdom power
- Opt. A3 – Australia power
- Opt. A5 – Switzerland power
- Opt. A6 – Japan power
- Opt. A10 – China power
- Opt. A11 – India power
- Opt. A12 – Brazil power
- Opt. A99¹ – No power cord

¹ When ordering the A99 option, it is the responsibility of the end user to be sure that a certified power cord, for the country or region in which it is installed, is used with this product.

CAUTION. To reduce risk of fire and shock, use the certified power cord provided with the product.

Battery Pack Charging

NOTE. For optimum performance, charge the battery pack completely before using it for the first time or after prolonged storage.

CAUTION. To avoid damage to the product or to other battery packs, do not use the WFM200BC external battery charger on any battery pack other than the WFM200BA battery pack.

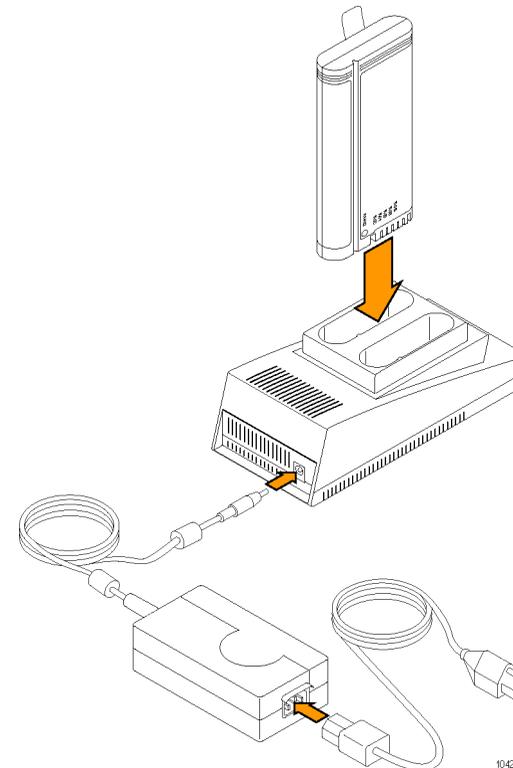
To avoid damage to the WFM200BA battery pack, use only the WFM2200 waveform monitor or the WFM200BC external battery charger to charge the battery pack. Do not connect any other voltage source to the battery pack.

To avoid overheating of the batteries during charging, do not exceed the maximum ambient temperature of 40 °C.

Perform the following steps to charge the WFM200BA battery pack:

1. Connect the AC adapter power supply to a mains outlet and insert the DC plug of the power supply into the WFM200BC External Battery Charger.
2. Align the slots on the battery to the slots in the charger and insert the battery into one of the charger bays.
3. Note the condition of the charger LEDs:

LED condition	Description
Solid green	Power on / Battery fully charged
Flashing green	Battery is charging
Solid red	Battery fault



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Specifications

Characteristic	Description
Output	16.8 VDC
Charge time	5.5 hrs
Adapter requirements	19 V / 3.16 A typical
DC input voltage range	18–24 V
Operating temperature	10 °C to +40 °C (+50 °F to +104 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)

Warranty Information

For warranty information, go to the www.tektronix.com Web site, and search for “WFM200BC warranty”.

Contacting Tektronix

Tektronix, Inc.
14200 SW Karl Braun Drive
P.O. Box 500
Beaverton, OR 97077
USA

For product information, sales, service, and technical support:

- In North America, call 1-800-833-9200.
- Worldwide, visit www.tektronix.com to find contacts in your area.