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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight BT2205A

Keysight BT2205A Charge Discharge Module 2 Channel 100 A The Keysight BT2205A is a 2-channel charge-discharge module for the BT2200 Li-ion formation and lifetime-cycling platform. OEM BT2200 datasheet lists two physical channels, each 6 V and plus or minus 100 A (437.5 W at the module terminals). Paralleling the two channels yields plus or minus 200 A; up to eight physical channels (four modules) parallel to plus or minus 800 A. Modules install in BT2202A or BT2203B chassis (up to eight modules) and must not be mixed with BT2204A/B in the same chassis. The Keysight BT2205A is a 2-channel charge-discharge module for the BT2200 Li-ion formation and lifetime-cycling platform. OEM BT2200 datasheet lists two physical channels, each 6 V and plus or minus 100 A (437.5 W at the module terminals). Paralleling the two channels yields plus or minus 200 A; up to eight physical channels (four modules) parallel to plus or minus 800 A. Modules install in BT2202A or BT2203B chassis (up to eight modules) and must not be mixed with BT2204A/B in the same chassis. High-current prismatic and pouch-cell formation, grading, and cycle-life test.

**MODEL****Agilent / Keysight
BT2205A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****BT2205A****LISTING**<https://aumictechlabs.com/products/bt2205a-2/>

NIST-traceable cal

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30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight BT2205A is a 2-channel charge-discharge module engineered for Li-ion cell formation and lifetime cycling within the BT2200 platform. Each physical channel delivers up to 6

V and ± 100 A, with 437.5 W maximum power per channel. Channels can be paralleled to create higher-current user channels - two physical channels yield ± 200 A, while up to eight channels across multiple modules achieve ± 800 A at 875.0 W. The module supports up to 256 cells per chassis when configured with multiple BT2205A units. Regenerative power circuitry improves efficiency during discharge cycles. Control and monitoring occur via USB and LAN interfaces, with GPIO available for fault detection and shutdown logic. Each module weighs 1.8 kg and fits within the standard BT2200 eight-module chassis capacity. All modules in a single chassis must be identical type - either all BT2204B or all BT2205A. Compatible with BT2202A (400/480 VAC 3-phase) and BT2203 chassis variants.

BT2205A Characteristics / Specifications

PARAMETER	VALUE
Model	BT2205A
Instrument Type	Charge-discharge module
Physical Channels	2
Voltage Charge Range	0 V to plus 6 V
Voltage Discharge Range	plus 6 V to plus 1.9 V at 100 A; plus 6 V to plus 1.2 V at 0 A
Current Range	minus 100 A to plus 100 A
Power Per Channel	437.5 W at module terminals
Parallel Two Channels	plus or minus 200 A, 875.0 W
Parallel Four Channels	plus or minus 400 A, 1750 W
Parallel Six Channels	plus or minus 600 A, 2625 W
Parallel Eight Channels	plus or minus 800 A, 3500 W
Cells Per Mainframe Example	16 cells at plus or minus 100 A with 8 modules
Voltage Measurement Accuracy	plus or minus [(0.06 percent) times voltage reading plus 1 mV]
Current Measurement Accuracy	plus or minus [(0.2 percent) times current reading plus 50 mA]
Host Chassis	BT2202A 400/480 VAC or BT2203B 200/208 VAC
Modules Per Chassis	up to 8
Mix With Bt22	not supported in the same chassis
Related Filler	BT2206A filler panel for empty slots
Use Case	Li-ion cell formation and cycling
Manufacturer	Keysight Agilent
Form Factor	BT2200 platform module
Literature	Keysight BT2200 Charge-Discharge Platform datasheet
Operating Temperature Class	BT2200 chassis
Control	BT2200 platform software
Operating temperature	Class: BT2200 chassis

BT2205A Specifications

PARAMETER	VALUE
Keysight BT2205A Charge Discharge Module 2 Channel 100 A	Overview
Two physical channels per module	6 V and plus or minus 100 A per channel
Parallel to plus or minus 800 A	437.5 W per physical channel
Technical Specifications	Model: BT2205A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: BT2200 chassis
Operating Temperature	Class: BT2200 chassis
Operating Temperature Class	BT2200 chassis
Control	BT2200 platform software Notes From Keysight BT2200 / BT2205A charge-discharge module datasheet and BT2200 operating guide. Parallel-channel wiring and chassis current sharing limits are in the BT2200 configuration guide.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	BT2205A
Instrument Type	Charge-discharge module
Physical Channels	2
Voltage Charge Range	0 V to plus 6 V
Voltage Discharge Range	plus 6 V to plus 1.9 V at 100 A; plus 6 V to plus 1.2 V at 0 A
Current Range	minus 100 A to plus 100 A
Power Per Channel	437.5 W at module terminals
Parallel Two Channels	plus or minus 200 A, 875.0 W
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Cells Per Mainframe Example	16 cells at plus or minus 100 A with 8 modules
Voltage Measurement Accuracy	plus or minus [(0.06 percent) times voltage reading plus 1 mV]
Current Measurement Accuracy	plus or minus [(0.2 percent) times current reading plus 50 mA]
Host Chassis	BT2202A 400/480 VAC or BT2203B 200/208 VAC
Modules Per Chassis	up to 8
Mix With Bt2204	not supported in the same chassis
Related Filler	BT2206A filler panel for empty slots
Use Case	Li-ion cell formation and cycling
Manufacturer	Keysight Agilent
Form Factor	BT2200 platform module
Literature	Keysight BT2200 Charge-Discharge Platform datasheet
Operating Temperature Class	BT2200 chassis
Control	BT2200 platform software

Notes

From Keysight BT2200 / BT2205A charge-discharge module datasheet and BT2200 operating guide. Parallel-channel wiring and chassis current sharing limits are in the BT2200 configuration guide.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.