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Data Sheet

August 13, 2026

LAKE SHORE

Lake Shore 1015

Lake Shore 1015 Cryogenic Test Station Warm-Up Power Supply The Lake Shore Model 1015 is a dual-channel warm-up power supply for Series 100 cryogenic test stations. Each channel delivers heater power to warm the first and second stages to room temperature for rapid sample turn-around. Dual two-lead silicon-diode monitors automatically shut each heater down at room temperature. LO range is up to 25 W (1 A, 25 V) into 25 ohm; HI range is up to 80 W (1.75 A, 45 V) into 25 ohm. Front-panel HI/LO, POWER ON, READY/WAIT, and START/STOP. Rear DIP switches select SINGLE or CONTINUOUS cycle and 10, 5, or 1 minute timeouts. Line is rear-selectable 110/120/220/240 Vac (+5%, -10%), 50-60 Hz, 350 VA. Half-rack Style L, 8.5 × 4 × 15 in, 7 kg. The Lake Shore Model 1015 is a dual-channel warm-up power supply for Series 100 cryogenic test stations. Each channel delivers heater power to warm the first and second stages to room temperature for rapid sample turn-around. Dual two-lead silicon-diode monitors automatically shut each heater down at room temperature. LO range is up to 25 W (1 A, 25 V) into 25 ohm; HI range is up to 80 W (1.75 A, 45 V) into 25 ohm. Front-panel HI/LO, POWER ON, READY/WAIT, and START/STOP. Rear DIP switches select SINGLE or CONTINUOUS cycle and 10, 5, or 1 minute timeouts. Line is rear-selectable 110/120/220/240 Vac (+5%, -10%), 50-60 Hz, 350 VA. Half-rack Style L, 8.5 × 4 ×



MODEL

Lake Shore 1015

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1015

LISTING

<https://aumictechlabs.com/products/1015-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Lake Shore 1015 Warm-Up Power Supply delivers precision temperature control for Series 100 Cryogenic Test Stations, enabling rapid sample turnaround by warming both first and second stages to room temperature. Two independent heater channels - each supplying up to 80 watts into a 25 Ω load - are individually controlled via dual temperature monitoring circuits with diode sensors. The unit automatically shuts down upon reaching room temperature, reducing operator intervention and cycle times.

Technical Specifications

Heater Output Two channels: up to 80 W per channel into 25 Ω load

Selectable power levels: High (80 W) or Low (25 W) per channel

Temperature Monitoring Dual independent circuits with silicon diode sensors

Four-wire connection support for IR drop compensation

Two-wire connection available for less critical applications

Nominal 10 μ A constant current sensor excitation

Sensor open/short circuit protection with automatic heater shutdown

Heater open circuit protection

Control Architecture

Automatic shutdown upon room temperature detection per stage

DIP switch configuration for SINGLE or CONTINUOUS cycle modes

Adjustable cycle delay times: 10, 5, or 1 minute

Front panel indicators: POWER, READY, WAIT status per stage

Manual controls: POWER ON HI/LO and START/STOP selection

Electrical Input voltage: 100, 120, 220, or 240 VAC ($\pm 5\%$, -10%)

Frequency: 50–60 Hz, single phase

Maximum power consumption: 350 VA

Includes three-prong detachable power cord (120 VAC)

Sensor Connections Dual two-lead silicon diode inputs via 5-pin socket connectors

Supports Lake Shore 36-Gauge Cryogenic wire for optimal accuracy

Key Features

Independent heater channel control with switchable power levels

Automatic thermal cutoff eliminates manual monitoring

Configurable cycle timing (1, 5, or 10 minute delays) via DIP switches

Dual-mode operation: single warm-up cycle or continuous mode

Built-in circuit protection against open sensors and heater faults

Four-wire temperature measurement capability for precision applications

Typical Applications Cryogenic research, materials testing, and industrial laboratory environments requiring controlled thermal cycling and rapid sample temperature recovery.

Compatibility & Integration Designed specifically for Series 100 Cryogenic Test Stations.

Features & description

From manufacturer datasheet

Features

- Two channels; diode-monitored automatic shutoff at room temperature

1015 Characteristics / Specifications

PARAMETER	VALUE
Model	1015
Manufacturer	Lake Shore Cryotronics
Instrument Type	Warm-Up Power Supply
Series	Series 100 Test Station
Alias	1015; Model 1015; Lake Shore 1015
Channel Count	2 independent heater channels (first and second stage)
Sensor Inputs	dual two-lead silicon diode through 5-pin socket connectors
Sensor Excitation	nominal 10 uA constant current
Heater Protection	sensor open, sensor short, and heater open shut-off
Heater Outputs	binding posts HEATER HI (+) and LO (-) per stage
Output Power LO	up to 25 W (1 A, 25 V) into a 25 ohm load
Output Power HI	up to 80 W (1.75 A, 45 V) into a 25 ohm load
Cycle Modes	SINGLE or CONTINUOUS via DIP switches
Cycle Timeouts	10, 5, and 1 minute delay times
Front Indicators	POWER ON HI, POWER ON LO, READY, WAIT, START, STOP
Operating Temperature	15-35 C
Dimensions	21.6 × 10.2 × 33 cm (8.5 × 4 × 15 in)
Style	Style L, half-rack
Net Weight	7 kg (15.4 lb)
AC Line	rear selectable 110/120/220/240 Vac, +5% / -10%
Line Frequency	50-60 Hz
Line VA	350 VA
Host	Series 100 Cryogenic Test Stations
Operation	warm both stages to room temperature for sample turn-around
Rear Panel	sensor input and heater output per stage; continuous vs one-shot; cycle timing

PARAMETER	VALUE
Documentation	Lake Shore 1015 User Manual P/N 119-010 (Rev 1.1)
Fuse	replace per rear-panel line-voltage selection table
Calibration	factory tested to published specifications; NIST-traceable at shipment (manual certification)
ESD	treat as ESDS electronics per Chapter 1 handling
Duty	intermittent warm-up cycles within HI/LO ratings Notes Specs from Lake Shore Model 1015 User Manual Table 1-1 (LO 25 W / HI 80 W into 25 ohm, 10 uA diode excitation, 350 VA, 15-35 C, half-rack). Confirm line-voltage wheel and Series 100 station cabling.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	15-35 C
Operating Temperature	15-35 C
Dimensions	21.6 × 10.2 × 33 cm (8.5 × 4 × 15 in)
Style	Style L, half-rack
Net Weight	7 kg (15.4 lb)
AC Line	rear selectable 110/120/220/240 Vac, +5% / -10%
Line Frequency	50-60 Hz
Line VA	350 VA
Host	Series 100 Cryogenic Test Stations
Operation	warm both stages to room temperature for sample turn-around
Rear Panel	sensor input and heater output per stage; continuous vs one-shot; cycle timing
Documentation	Lake Shore 1015 User Manual P/N 119-010 (Rev 1.1)
Fuse	replace per rear-panel line-voltage selection table
Calibration	factory tested to published specifications; NIST-traceable at shipment (manual certification)
ESD	treat as ESDS electronics per Chapter 1 handling
Duty	intermittent warm-up cycles within HI/LO ratings Notes Specs from Lake Shore Model 1015 User Manual Table 1-1 (LO 25 W / HI 80 W into 25 ohm, 10 uA diode excitation, 350 VA, 15-35 C, half-rack). Confirm line-voltage wheel and Series 100 station cabling.

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	1015
Manufacturer	Lake Shore Cryotronics
Instrument Type	Warm-Up Power Supply
Specifications	
PARAMETER	VALUE
Series	Series 100 Test Station
Alias	1015; Model 1015; Lake Shore 1015
Channel Count	2 independent heater channels (first and second stage)
Specifications	
PARAMETER	VALUE
Sensor Inputs	dual two-lead silicon diode through 5-pin socket connectors
Sensor Excitation	nominal 10 uA constant current
Heater Protection	sensor open, sensor short, and heater open shut-off
Specifications	
PARAMETER	VALUE
Heater Outputs	binding posts HEATER HI (+) and LO (-) per stage
Output Power LO	up to 25 W (1 A, 25 V) into a 25 ohm load
Output Power HI	up to 80 W (1.75 A, 45 V) into a 25 ohm load
Specifications	
PARAMETER	VALUE
Cycle Modes	SINGLE or CONTINUOUS via DIP switches
Cycle Timeouts	10, 5, and 1 minute delay times
Front Indicators	POWER ON HI, POWER ON LO, READY, WAIT, START, STOP

Specifications

PARAMETER	VALUE
Operating Temperature	15-35 C
Dimensions	21.6 x 10.2 x 33 cm (8.5 x 4 x 15 in)
Style	Style L, half-rack

Specifications

PARAMETER	VALUE
Net Weight	7 kg (15.4 lb)
AC Line	rear selectable 110/120/220/240 Vac, +5% / -10%
Line Frequency	50-60 Hz

Specifications

PARAMETER	VALUE
Line VA	350 VA
Host	Series 100 Cryogenic Test Stations
Operation	warm both stages to room temperature for sample turn-around

Specifications

PARAMETER	VALUE
Rear Panel	sensor input and heater output per stage; continuous vs one-shot; cycle timing
Documentation	Lake Shore 1015 User Manual P/N 119-010 (Rev 1.1)
Fuse	replace per rear-panel line-voltage selection table

Specifications

PARAMETER	VALUE
Calibration	factory tested to published specifications; NIST-traceable at shipment (manual certification)
ESD	treat as ESDS electronics per Chapter 1 handling
Duty	intermittent warm-up cycles within HI/LO ratings

Notes

Specs from Lake Shore Model 1015 User Manual Table 1-1 (LO 25 W / HI 80 W into 25 ohm, 10 uA diode excitation, 350 VA, 15-35 C, half-rack). Confirm line-voltage wheel and Series 100 station cabling.

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.