Digital Battery Element Tester
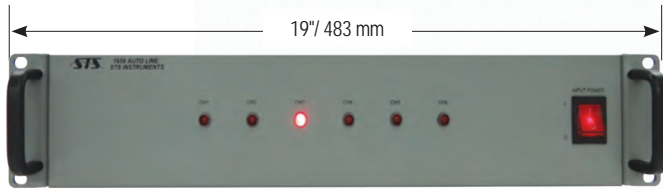
1656 Auto-Line Option

CE

Key Benefits

- Increased Lead-Acid Battery Quality
- Supports High-Speed Automated Production Lines
- Shorten Test Times by Testing Six Cells per Test Cycle
- Tests Up To Six Cells per Battery every 1.2 seconds
- Interfaces with PLC Controllers
- Remote computer interfaces for data collection and control

The STS Instruments 1656 Auto-Line Option is a companion product to the Model 1656 Battery Element Tester. When combined with the 1656, the Auto-Line option provides automated testing of batteries with up to six elements using automated probing systems.
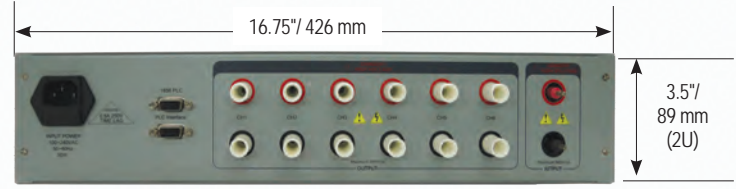
The Auto-Line routes test signal and measurements to up to six available channels under control of the 1656 tester. All high voltage connections are made at the rear panel of the Auto-Line unit and routed to the multi-channel test head (not included with Auto-Line option).

Front and Rear Panel Layout and Connectors

19"/ 483 mm

The STS Auto-Line option is designed for bench top or 19" equipment rack use. Shown with rack mount handles.

16.75"/ 426 mm

3.5"/ 89 mm (2U)

The STS Auto-Line Option Rear Panel provides connections High Voltage Leads, Control interface and AC Line input.

Technical Specifications

TEST CHANNELS

OUTPUT	Six Channels
SWITCHING	Dual High Voltage Isolation Relays per Channel
MIN. TEST TIME	200 msec / cell

FRONT & REAR PANEL CONTROLS AND INDICATORS

FRONT PANEL	
POWER	Illuminated On/Off Rocker Power Switch Lit when unit is powered on
CHANNEL SELECT	Red Illuminated LED Indicates Active Channel

REAR PANEL	
INPUT TERMINALS	Range: 0 – 3000 V Safety Rated: 6000V max.
OUTPUT TERMINALS	Six High Voltage Receptacles, 1 Red, 1 Black

AC INPUT

INPUT VOLTAGE	100V to 240V ± 10 % Universal Input, 47 – 63 Hz
CURRENT	200 mA Max.
POWER FACTOR	0.98 Typical
FUSE	0.5A Slow Blow 250VAC.
	Fuse Dimension: 5 x 20 mm / 0.20" x 0.80"
LINE CORD	Detachable, IEC 60320, C13 Type (Line Cord Included)

PHYSICAL

FORM FACTOR	19" Rack mount Steel Chassis Removable Rack Ears/Handles for Bench Use
DIMENSIONS	Width: 483 mm / 19" (incl. removable rack ears) 425 mm / 16.7" (excl. rack ears)
	Height: 89 mm / 3.5"
	Depth: 216 mm / 8.8"
	Shipping: 559 x 152 x 356 mm (W x H x D) 22 x 6 x 14"
WEIGHT	Net: 6.8 Kg / 15 lbs.
	Shipping: 9 Kg / 20 lbs.

ENVIRONMENTAL

TEMPERATURE (Operating)	0 to +40° C +32 to +104° F
TEMPERATURE (Storage)	-20 to +70° C -2 to +158° F
HUMIDITY	RH 5 to 95%, Non-Condensing
ALTITUDE	2000 m / 6000 ft.
POLLUTION DEG.	Cat II, Indoor Use

REGULATORY

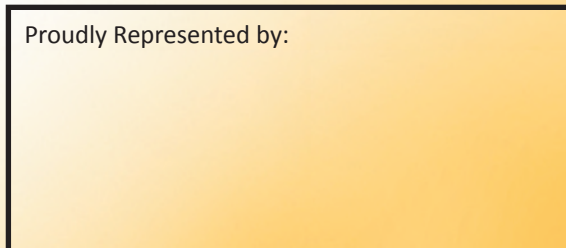|	
APPROVALS	CE Mark LVD 2006/95/EC
	Safety: IEC 61010-1:2010, Ed 3.0
	EMC: IEC 61326-1:2013, Ed. 2.0

Ordering Information

MODEL NUMBER	DESCRIPTION	NOTES
1656 AUTO LINE	Six Channel HV Multiplexer for auto-production line fixture testing.	Requires 1656-PLC-RPC Supplied with: • Auto Line Operator Manual • AC Line Cord (detachable) • Two High Voltage M/F Cables (Red / Black) • HD DB15 M/M Control Cable

Proudly Represented by:

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