



# Digital Battery Element Tester

## 1656 Auto-Line Option

*COMPATIBLE WITH TESTER MODELS 1656 & 1657*



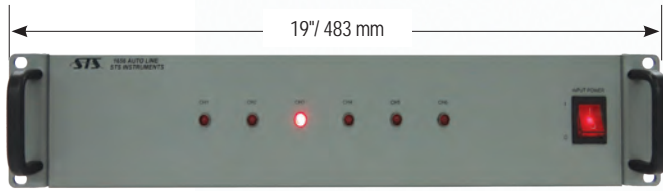
### Key Benefits

- 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

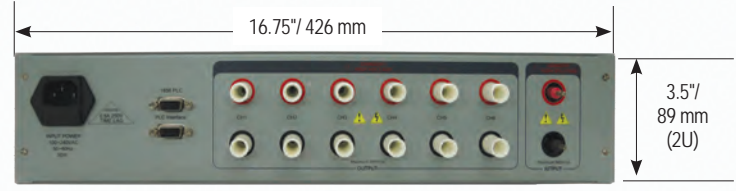
The STS Instruments 1656 Auto-Line Option is a companion product to the Model 1656 or 1657 Battery Element Tester. When combined with either battery element tester (BET) model, the Auto-Line option provides automated testing of batteries with up to six elements using automated probing systems. The Auto-Line routes test signal and measurements to up to six available channels under control of the BET. 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



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



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

## Technical Specifications

### TEST CHANNELS

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

### FRONT & REAR PANEL CONTROLS AND INDICATORS

#### FRONT PANEL

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

#### REAR PANEL

<b>INPUT TERMINALS</b>	Range: 0 – 3000 V Safety Rated: 6000V max.
<b>OUTPUT TERMINALS</b>	Six High Voltage Receptacles, 1 Red, 1 Black

### AC INPUT

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

### PHYSICAL

<b>FORM FACTOR</b>	19" Rack mount Steel Chassis Removable Rack Ears/Handles for Bench Use
<b>DIMENSIONS</b>	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"
<b>WEIGHT</b>	Net: 6.8 Kg / 15 lbs. Shipping: 9 Kg / 20 lbs.

### ENVIRONMENTAL

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

### REGULATORY

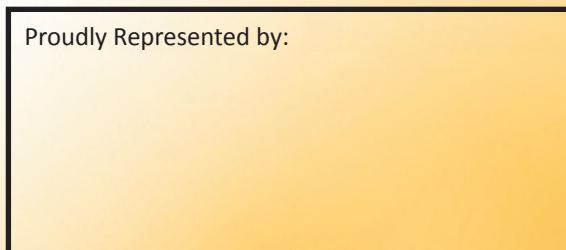
<b>APPROVALS</b>	CE Mark LVD 2006/95/EC Safety: IEC 61010-1:2010, Ed 3.0 EMC: IEC 61326-1:2013, Ed. 2.0
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## Ordering Information

MODEL NUMBER	DESCRIPTION	NOTES
1656 Auto-Line	Six Channel HV Multiplexer for auto-production line fixture testing.	Requires 1656-PLC-RPC or 1657-PLC-RPC Supplied with: <ul style="list-style-type: none"> <li>Auto Line Operator Manual</li> <li>AC Line Cord (detachable)</li> <li>Two High Voltage M/F Cables, 1m/3.3' (1 Red / 1 Black)</li> <li>Twelve High Voltage Fixture Connect Wires, Single end terminated, 3m/9.8' (White)</li> <li>HD DB15 M/M Control Cable</li> </ul>



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