

# Selector Guide

# SourceMeter® Instruments

MODEL	2400 2400-C	2410 2410-C	2420 2420-C	2425 2425-C	2430 2430-C	2440 2440-C	2790 (See page 68)	6430
Description	General Purpose	High Voltage	3 A	High Power	1000 W Pulse	5 A	Switching	Ultra-Low Current
Current Source/Sink	•	•	•	•	•	•	•	•
Voltage Source/Sink	•	•	•	•	•	•	•	•

## POWER OUTPUT

	20 W	20 W	60 W	100W	1000 W*	50 W		2 W
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## CURRENT CAPABILITY

Min.	±10 pA	±10 pA	±100 pA	±100 pA	±100 pA	±100 pA	±10 nA	±10 aA**
Max	±1.05 A	±1.05 A	±3.15 A	±3.15 A	±10.0 A*	±5 A	±3 A	±100 mA

## VOLTAGE CAPABILITY

Min.	±1 μV	±1 μV	±1 μV	±1 μV	±1 μV	±1 μV	±0.1 μV	±1 μV
Max.	±210 V	±1100 V	±63 V	±100 V	±100 V	±40 V	±1000 V	±200 V

## OHMS RANGE

	<0.2 Ω to >200 MΩ	<0.2 Ω to >200 MΩ	<0.2 Ω to >200 MΩ	<0.2 Ω to >200 MΩ	<0.2 Ω to >200 MΩ	<2.0 Ω to >200 MΩ	<100 μΩ to >120 MΩ	<2.0 Ω to >20 TΩ
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## BASIC ACCURACY

I	0.035%	0.035%	0.035%	0.035%	0.035%	0.035%		0.035%
V	0.015%	0.015%	0.015%	0.015%	0.015%	0.015%		0.015%
Ω	0.06%	0.07%	0.06%	0.06%	0.06%	0.06%		0.06%

## APPLICATIONS

- Resistive devices
- Diodes
- Optoelectronic components
- IDDQ testing
- Voltage coefficient
- Varistors
- High voltage diodes and protection devices
- Airbag inflators
- Power resistors
- Thermistors
- Solar cells
- Batteries
- Diodes
- IDDQ testing
- Power semi-conductors
- DC/DC converters
- High power components
- IDDQ testing
- High power pulse testing
- Varistors and other circuit protection devices
- 5A pump laser diodes
- Automobile airbag inflators
- Seat belt pretensioner actuators
- Insulation resistance
- Conductor continuity
- Particle beam experiments
- SET (single electron ) transistor testing
- Ultra-high resistance testing (up to 10<sup>15</sup>Ω)

## FEATURE SUMMARY

Programming	IEEE-488, RS-232
Memory	5000 pt.
Trigger	In/Out
Guard	Ohms and cable
Digital I/O	1 In/4 Out with built-in component handler interfaces. (Model 2790: 1 In/5 Out.)
Other	5½-digit measure capability. Handler interface. 500μs pass/fail test. Optional contact check capability (except 6430)
CE	Yes

\* In pulse mode.

\*\* 1aA = 1×10<sup>-18</sup>A.

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