SPECIFICATIONS

DC VOLTAGE (DC V)

Range	Maximum Output	Resolution	Stability (24 h) ±(% of setting + μV)	Stability (90 days) $\pm(\% \text{ of setting} + \mu V)$	Accuracy (90 days) $\pm(\% \text{ of setting} + \mu V)$	±(% of setting	Temperature Coefficient ±(% of setting + μV)/°C
10 mV	±12.0000 mV	100 nV	0.002 + 3	0.014 + 4	0.018 + 4	0.025 + 5	0.0018 + 0.7
100 mV	±120.000 mV	1 μV	0.003 + 3	0.014 + 5	0.018 + 10	0.025 + 10	0.0018 + 0.7
1 V	±1.20000 V	10 μV	0.001 + 10	0.008 + 50	0.01 + 100	0.016 + 120	0.0009 + 7
10 V	±12.0000 V	100 μV	0.001 + 20	0.008 + 100	0.01 + 200	0.016 + 240	0.0008 + 10
30 V	±32.000 V	1 mV	0.001 + 50	0.008 + 200	0.01 + 500	0.016 + 600	0.0008 + 30

The stability (24 h) is the value at 23 \pm 1°C. The stability (90 days), accuracy (90 days) and accuracy (1 year) are values at 23 \pm 5°C. The temperature coefficient is the value at 5 to 18°C and 28 to 40°C.

D	Maximum Output	Output	Output Noise		
Range	Current	Resistance	DC to 10 Hz	DC to 10 kHz (Typical Data)	
10 mV	_	approx. 2 Ω	3 µ∨р-р	30 µ∨р-р	
100 mV	_	approx. 2 Ω	5 µ∨р-р	30 μVp-р	
1 V	± 120 mA	less than 2 m Ω	15 µ∨р-р	60 µVр-р	
10 V	± 120 mA	less than 2 m Ω	50 µVp-р	100 µVр-р	
30 V	± 120 mA	less than 2 m Ω	150 µVp-р	200 µVр-р	

Common mode rejection: 120 dB or more (DC, 50/60 Hz). (However, it is 100 dB or more in the 30 V range.)

DC CURRENT (DC A)

Range	Maximum Output	Resolution	Stability (24 h) ±(% of setting + μA)	Stability (90 days) $\pm(\% \text{ of setting} + \mu A)$	Accuracy (90 days) \pm (% of setting + μ A)	±(% of setting	Temperature Coefficient ±(% of setting + μA)/°C
1 mA	±1.20000 mA	10 nA	0.0015 + 0.03	0.016 + 0.1	0.02 + 0.1	0.03 + 0.1	0.0015 + 0.01
10 mA	±12.0000 mA	100 nA	0.0015 + 0.3	0.016 + 0.5	0.02 + 0.5	0.03 + 0.5	0.0015 + 0.1
100 mA	±120.000 mA	1 μΑ	0.004 + 3	0.016 + 5	0.02 + 5	0.03 + 5	0.002 + 1

The stability (24 h) is the value at $23 \pm 1^{\circ}$ C. The stability (90 days), accuracy (90 days) and accuracy (1 year) are values at $23 \pm 5^{\circ}$ C. The temperature coefficient is the value at 5 to 18°C and 28 to 40°C.

Damaa	Maximum Output	Output	Output Noise		
Range	Voltage	Resistance	DC to 10 Hz	DC to 10 kHz (Typical Data)	
1 mA	±30 V	more than 100 M Ω	0.02 µАр-р	0.1 µАр-р	
10 mA	±30 V	more than 100 M Ω	0.2 µАр-р	0.3 µАр-р	
100 mA	±30 V	more than 10 $M\Omega$	2 µАр-р	3 µАр-р	

Common mode rejection: 100 nA/V or more (DC, 50/60 Hz).

Response Time

- Delay time: Approx. 10 ms (For the fixed range).
- **Response time:** Less than 10 ms to within $\pm 0.1\%$ of set value, at the max. output and max. load, without actuation of limiter, with resistive load.

Limiter

	Setting Range	Resolution	Others
Current limiter	5 to 120 mA	1 mA	At voltage output
Voltage limiter	1 to 30 V	1 V	At current output

After limiter actuation, automatic recovery from limit status is executed by removal of overload.

Data Setting

- Continuous variable mode (set by each digit by up/down keys)
- Data mode (set directly by ten-key)
- Interface Function
- **GP-IB** interface:

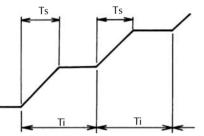
Electrical and mechanical specifications: Conforms to IEEE St'd 488-1978

Interface function & identification: SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0 Address mode: Address setting, Header ON/OFF are settable

Programming Function

- Internal memories: Stores settings up to 50 steps
- IC memory card: Stores 7 patterns of programs, each program can store settings up to 50 steps (IC memory cards; 8K bytes, optional)
- Program actuation by external trigger attaum)

• Interval time/sweep time (by each pattern)					
	Setting Range	Resolution			
Interval time (Ti)	100 ms to 1 h	100 ms			
Sweep time (Ts)	0 to 1 h	100 ms			
	_				



• Execution mode:

SINGLE ... Executes programmed pattern only once

REPEAT ... Repeats the execution of programmed pattern

- External Trigger
- Single step actuation of program can be executed by external trigger.
- Ready output: Suitable for system use

GENERAL SPECIFICATIONS

Operating Principle: Multiplication type dual D/A conversion

Output Setting: ±120,000 (setting range), ±32000 in the 30 V range only. continuous variable mode, data mode

Display: 7-segment LED

- Unit Indication: 5 x 7 dot-matrix LED, mV/V/mA Overload Indication: "-oL-" sign display Allowable Input Voltage: 32 V/120 mA between Hi-Lo, 42 V peak between Lo-G, 500 V peak between G-Case

Operating Temperature Range: 5 to 40°C (41 to 104°F)

Humidity Range: 20 to 80% R.H.

Warm-up Time (approx.): 60 minutes Power Supply*: 100/115 V AC ±10%, 50/60 Hz, selectable by switch As to source voltage 200/230 V, prescription is needed. Changeover operable.

Power Consumption (approx.): 30 VA

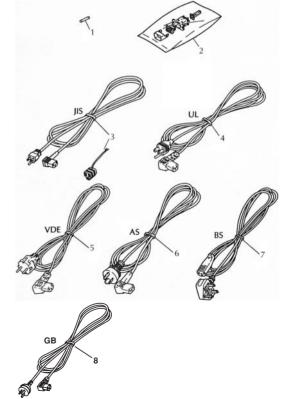
Dimensions (approx.): 213 (W) x 88 (H) x 350 (D) mm, (8-7/16 x 3-1/2 x 13-13/16")

Weight (approx.): 3.6 kg (7.92 lbs)

STANDARD ACCESSORIES

No.	Name	Part No.	Q'ty	Description
	Fuse*	A1107EF	1	0.315 A, 100 V
I	ruse	A1104EF	1	0.16 A, 200 V
2	Remote connector	A1003JD	1	—
_	Instruction manual	_	1	—
3		A1006WD A1253JZ	1	100 V series (JIS standard)
4		A1006WD	1	115 V series (UL standard)
5	Power supply cord*	A1009WD	1	200 V series (VDE standard)
6	cord*	A1024WD	1	230 V series (AS standard)
7		A1023WD	1	BS standard
8		A1064WD	1	GB standard

* Specified one.



AVAILABLE MODELS

Model Suffix Codes			Description		
765101				With front output terminal, GP-IB	
765111				With rear output terminal, GP-IB	
	-A			Always A (version code)	
		-1		100 V AC (50 & 60 Hz), 115 V AC changeable	
Power	-3 -5			115 V AC (50 & 60 Hz), 100 V AC changeable	
Require- ments				200 V AC (50 & 60 Hz), 230 V AC changeable	
	-7			230 V AC (50 & 60 Hz), 200 V AC changeable	
			/M	JIS standard	
			/D	UL standard	
Power C	ord		/F	VDE standard	
			/R	AS standard	
			/J	BS standard	
	/H		/H	GB standard	

OPTIONAL ACCESSORIES FOR 7651

No.	Code	Code Name	
8	378901 IC memory card (setting data), 8 K bytes		1unit (1 pc./unit)
-	B9586NG Dummy card (Dust cap for IC memory card slot), 2 pcs./unit		1unit (2pcs./unit)
9	B9409LA	Test leads (alligator type, 0.8 m)	
_	751501	Rack mounting kit (EIA, single mounting)	1
_	751502	Rack mounting kit (EIA, double mounting)	1 unit (1pc./unit)
-	751503 Rack mounting kit (JIS, single mounting)		
_	751504	Rack mounting kit (JIS, double mounting)	

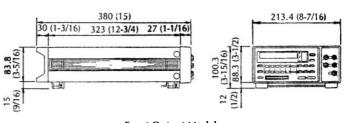


IC memory card (**378901**)



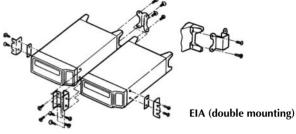
Shielded test leads (**B9409LA**)

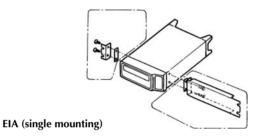
DIMENSIONS

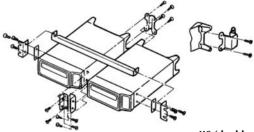


Front Output Model

< Rack Mounting >







JIS (double mounting)

Unit: mm (inch)

