Specifications

Voltage generation

Range	Source range[*1]	Resolution	Stability (1 h)[*2] ±(ppm of setting + V)	Accuracy (180 days)[*3, 4] ±(ppm of setting + V)	Accuracy (1 year)[*3, 4] ±(ppm of setting + V)
100 mV	±122.400 mV	1 μV	20 + 3 μV	40+ 4 μV	60+ 4 μV
1 V	±1.22400 V	10 μV	5 + 5 μV	40+ 10 μV	55+ 15 μV
10 V	±12.2400 V	100 μV	5 + 50 μV	40+ 100 μV	55+ 150 μV
100 V	±122.400 V	1 mV	5 + 500 μV	40+ 1 mV	55+ 1.5 mV
1000 V	±1224.00 V	10 mV	5 + 5 mV[*5]	40+ 10 mV[*5]	55+ 15 mV[*5]

Range	Temperature coefficient ±(ppm of setting + V)/°C	Max. Output	Output resistance[*6]	Output noise DC to 10 Hz	Output noise 10 Hz to 10 kHz	Max. C load
100 mV	5+ 0.3 μV	12 mA or more	6 mΩ or less	5 μVp-p	10 μVrms	10 μF
1 V	3+ 1 μV	Approx.120 mA	6 mΩ or less	15 μVp-p	20 μVrms	10 μF
10 V	3+ 10 μV	Approx.120 mA	6 mΩ or less	50 μVp-p	30 μVrms	10 μF
100 V	3+ 100 μV	Approx. 30 mA	30 mΩ or less	500 μVp-p	400 μVrms	1 μF
1000 V	3+ 1 mV	Approx. 10 mA	1 Ω or less	1 mVp-p	1 mVrms	0.01 μF

Current generation

Range	Source range[*1]	Resolution	Stability (1 h)[*2] ±(ppm of setting + A)	Accuracy (180 days)[*4] ±(ppm of setting + A)	Accuracy (1 year)[*4] ±(ppm of setting + A)
100 μA	±122.400 μA	1 nA	50 + 5 nA	100 + 12 nA	150 + 20 nA
1 mA	±1.22400 mA	10 nA	5 + 15 nA	50 + 20 nA	70 + 30 nA
10 mA	±12.2400 mA	100 nA	5 + 150 nA	50 + 200 nA	70 + 300 nA
100 mA[*7]	±122.400 mA	1 μA	10 + 1.5 μA	70 + 2 μA	90 + 3 μA
1 A	±1.22400 A	10 μA	25 + 25 μA	250 + 50 μA	350 + 70 μA
10 A	±12.2400 A	100 μA	50 + 500 μA	350 + 1 mA	380 + 1.2 mA
30 A	0 to +36.720 A	1 mA	70 + 1.2 mA	450 + 1.5 mA	540 + 1.8 mA

Range	Temperature coefficient ±(ppm of setting + A)/°C	Max. Output	Output resistance	Output noise DC to 10 Hz	Output noise 10 Hz to 10 kHz	Max. L load
100 μA	10 + 0.5 nA	Approx. 30 V	100 MΩ or more	0.1 μAp-p	0.2 μArms	1 mH
1 mA	3 + 1.5 nA	Approx. 30 V	100 MΩ or more	0.5 μAp-p	0.5 μArms	1 mH
10 mA	5 + 15 nA	Approx. 30 V	100 MΩ or more	1 μAp-p	1 μArms	1 mH
100 mA[*7]	10 + 150 nA	Approx. 30 V	10 MΩ or more	5 μAp-p	10 μArms	1 mH
1 A	15 + 6 μA	Approx. 10 V	1 MΩ or more	0.1 mAp-p	0.1 mArms	1 mH
10 A	30 + 60 μA	Approx. 2 V	10 kΩ or more	1 mAp-p	4 mArms	1 mH
30 A	30 + 300 μA	Approx. 1.5 V	5 kΩ or more	1 mAp-p	4 mArms	1 mH

*1 To generate 122.4% of range, set main value to 120% of range and set deviation to 2%
*2 1-hour stability values apply at 23°C±1°C. 1-hour starts from 1 hour after turning output on
*3 Excluding the voltage drop by the output resistance
*4 Accuracy values apply at 23±3°C, 20% to 80%RH. Add temperature coefficient at 5°C to 20°C and 26°C to 40°C. Add 500 ppm of range when the output value is 120% of range or greater.
*5 Add {12 ppm × (output value/1000)^2} of range when the output value is 100 V or greater
*6 When B8506ZK, 758933, or 758917 is in use; excluding aging and the effects of measurement leads
*7 Accuracy is specified when sinking the current up to 30 mA

Temperature generation for RTD

Type	Source Range	Resolution	Accuracy (180 days)[*8]	Accuracy (1 year)[*8]	Temperature Coefficient	Nominal Current
Pt100	–200.0 to 850.0°C	0.1°C	±0.1°C	±0.12°C	±0.006°C/°C	0.1 to 2 mA

Resistance generation

Range	Source Range	Resolution	Accuracy (180 days)[*8, 9] ±(ppm of setting + Ω)	Accuracy (1 year)[*8, 9] ±(ppm of setting + Ω)	Temperature Coefficient	Nominal Current
400 Ω	1.00 to 400.00 Ω	0.01 Ω	55 + 0.005	75 + 0.015	±0.002 Ω/°C	0.1 to 2 mA

*8 Accuracy values apply at 23±3°C, 20% to 80% RH. *9 Nominal current Is: In case of 0.1 mA to 1 mA, add{0.0025/Is(mA)}Ω

Temperature generation for Thermocouple

	R	S	B	J	T
Source Range [℃]	–50 to 1768	–50 to 1768	0 to 1820	–210 to 1200	–270 to 400
Setting temparature: Accuracy for 1 year (±℃)	–50℃: 1.10	–50℃: 1.03	400℃: 1.00	–210℃: 0.25	–250℃: 0.72
	0℃: 0.80	0℃: 0.75	600℃: 0.70	–100℃: 0.11	–200℃: 0.29
	100℃: 0.55	100℃: 0.56	1000℃: 0.50	0℃: 0.08	–100℃: 0.16
	600℃: 0.40	400℃: 0.47	1200℃: 0.44	1200℃: 0.15	100℃: 0.10
	1600℃: 0.40	1600℃: 0.44	1820℃: 0.44		400℃: 0.09
	1768℃: 0.45	1768℃: 0.51			

	E	K	N	C	A
Source Range [℃]	–270 to 1000	–270 to 1300	–270 to 1300	0 to 2315	0 to 2500
Setting temparature: Accuracy for 1 year (±℃)	–250℃: 0.50	–250℃: 0.94	–240℃: 1.00	0℃: 0.30	0℃: 0.34
	–200℃: 0.20	–200℃: 0.30	–200℃: 0.44	200℃: 0.26	100℃: 0.29
	–100℃: 0.10	–100℃: 0.15	–100℃: 0.21	600℃: 0.25	600℃: 0.28
	0℃: 0.07	0℃: 0.11	0℃: 0.16	1000℃: 0.30	1600℃: 0.47
	1000℃: 0.12	800℃: 0.15	800℃: 0.15	2000℃: 0.51	2500℃: 0.79
		1300℃: 0.21	1300℃: 0.20	2315℃: 0.70	

Resolution: 0.1℃
Output Resistance: Approx. 1 Ω
Temperature scale is ITS-90.
Accuracy apply at 23±3℃ and without reference junction compensation.
Accuracy doesn't include the thermocouple's error.
Accuracy for temperature between setting temperature is calculated by linear interpolation.
Accuracy not shown in left table is ±(60 ppm + 4 μV) for generated voltage.

3 RJC modes
INT*: Detect temperature of output terminal as compensation value. Temperature measurement accuracy is ±0.3℃.
EXT*: Detect compensation value by sensor connected to RJC terminal
MAN: Input compensation value

*When using RJC, add the reference junction compensation error in "2560A Temperature generation for Thermocouple (Detail)" on our web site.

Other generation specification

Sweep	Target	Voltage/Current/Temperature/ Resistance
	Speed	Approx. 8/16/32/64 sec. selectable during 0 to 100%, 100 to 0% of setting
Output divider	Target	Voltage/Current/Temperature/ Resistance
	Denominator	m 4 to 15
	Numerator	n 0 to 15 (n ≤ m)
Scale function	A function to set the maximum value (MAX) and minimum value (MIN) of sweep and divider range.	
Deviation	Target	Voltage/Current/Temperature/ Resistance
	Variable range	±20.00%
	Operation	Two dials Resolution of the first dial: 0.2% of (MAX – MIN) Resolution of the second dial: 0.01% of (MAX – MIN)
	Deviation preset	OFF/0/2%/5%
Transient response time	Voltage/Current generation: Approx. 500 ms (except for 1000 V range), approx. 3 s (1000 V range) (No load, Time to reach 0.02% of final value)	
	RTD/Resistance generation: Within 0.1 ms (Time constant at changing current)	
CMRR	Voltage	120 dB or greater (except for 1000 V range), 100 dB or greater (1000 V range) (DC, 50/60 Hz)
	Current	0.1 μA/V or less (1 A range or less), 10 μA/V or less (10 A range or more) (DC, 50/60 Hz)

General specification

Warm-up time	Approx. 30 minutes
Operating environment	Temperature: 5 to 40℃ Humidity: 20 to 80% RH* *20 to 70%RH for 30℃ and over
Storage environment	Temperature: –15 to 60℃ Humidity: 20 to 80% RH
Operating Height	2000 m or less
Operating Attitude	Horizon
Rated power supply voltage	100 to 120 VAC/200 to 240 VAC
Allowable power supply voltage fluctuation range	90 to 132 VAC/180 to 264 VAC
Rated power supply frequency	50/60 Hz
Allowable power supply frequency fluctuation range	48 to 63 Hz
Max. power consumption	200 VA
Withstand voltage	Between power and case: 1500 VAC 1 min.
Dimensions	426 (W) × 177 (H) × 400 (D) mm
Weight	Approx. 13 kg

Communication Interface

USB interface (PC connection)	
Connector	Type B connector (receptacle)
Electric and mechanical specifications	Complies with USB Rev. 2.0
supported transfer modes	High Speed, Full Speed
Ethernet interface	
Connector	RJ-45 connector
Electric and mechanical specifications	Confirms to the IEEE 802.3
Transfer methods	100 BASE-TX/10 BASE-T
Transfer speed	Max. 100 Mbps
GP-IB interface	
Electric and mechanical specifications	Complies with IEEE St'd 488-1978
Functional specifications	SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, C0
Address	0 to 30

Model and Suffix code

Model	Suffix code	Description
2560A		Precision DC Calibrator
	–VA	Version A
	–UC	Deg C
	–UF	Deg C and F
	–D	UL/CSA standard, PSE compliant
	–F	VDE standard
	–R	AS standard
	–Q	BS standard
	–H	GB standard
	–N	NBR standard

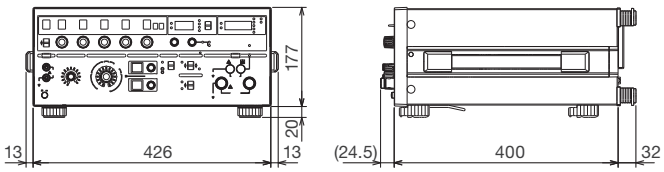
Standard accessories :
Power cord (1), B8506ZK, B8506WA (each 1), B8506ZL Alligator clip adapter set (1), 758921 Fork terminal adapter (1), Rubber feet (2 sets (4)), Terminal plug (1), User's manual (1)

Rack Mounting Kits

Model	Product	Description
751535-E4	Rack mounting kit	EIA standalone installation
751535-J4	Rack mounting kit	JIS standalone installation

External dimensions

Unit: mm



Related product

2553A Small and light Precision DC Calibrator

Accuracy Voltage: ±0.0075%, Current: ±0.0120%
Stability ±15 ppm/h
Noise 2 μVrms
Resolution 5.5 digits, ±120000 count display
Range Voltage: ±32 V, Current: ±120 mA
Thermocouple, RTD

2558A AC Voltage Current Standard

Accuracy Voltage: ±0.04%
Current: ±0.05%
Stability ±50 ppm/h
Frequency range 40 to 1000 Hz
Range Voltage: 1.00 mV to 1200.0 V
Current: 1.00 mA to 60.00 A

Accessories

Model	Name	Description	
257875	RJ sensor	For reference junction compensation sensor. Pt100, 1.95 m	
B8506ZK	Measurement lead set	2 voltage output cables (red and black). 1 m. Rating 1500 V	
B8506WA	Measurement lead set	2 current output cables. 1.5 m. Rating 80 A	
758933	Measurement lead set	2 safety terminal cables (red and black). 1 m. Rating 1000 V	
758917	Measurement lead set	2 safety terminal cables (red and black). 0.75 m. Rating 1000 V	
B8506ZL ⚠	Alligator clipadapter set	2 safety terminal—alligator clip adapters (red and black). Rating 1500 V	
758929 ⚠	Alligator clipadapter set	2 safety terminal—alligator clip adapters (red and black). Rating 1000 V	
758922 ⚠	Alligator clipadapter set	2 safety terminal—alligator clip adapters (red and black). Rating 300 V	
758921 ⚠	Fork terminal adapter	2 safety terminal—fork terminal adapters (red and black).	

⚠ Due to the nature of this product, it is possible to touch its metal parts. Therefore, there is a risk of electric shock, so the product must be used with caution.

NOTICE
● Before operating the product, read the user's manual thoroughly for proper and safe operation.

Yokogawa's Approach to Preserving the Global Environment

- Yokogawa's electrical products are developed and produced in facilities that have received ISO14001 approval.
- In order to protect the global environment, Yokogawa's electrical products are designed in accordance with Yokogawa's Environmentally Friendly Product Design Guidelines and Product Design Assessment Criteria.

This is a Class A instrument based on Emission standards EN61326-1 and EN55011, and is designed for an industrial environment.
Operation of this equipment in a residential area may cause radio interference, in which case users will be responsible for any interference which they cause.

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