

Specifications

Model	3760A	3761A	3762A	3763A	3764A	3765A	3766A
Current	0~60A	0~90A	0~120A	0~140A	0~160A	0~180A	0~200A
Voltage	0~500V	0~500V	0~500V	0~500V	0~500V	0~500V	0~500V
Power*1	1000W at 40°C	1500W at 40°C	2000W at 40°C	2400W at 40°C	3000W at 40°C	4000W at 40°C	5000W at 40°C
Input Characteristics							
Constant Current Mode							
Low Range	0~6A	0~6A	0~6A	0~6A	0~8A	0~8A	0~8A
Resolution	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Accuracy	0.2%+5mA	0.2%+5mA	0.2%+5mA	0.2%+5mA	0.2%+5mA	0.2%+5mA	0.2%+5mA
High Range	0~60A	0~90A	0~120A	0~140A	0~160A	0~180A	0~200A
Resolution	1mA (0~60A)	1mA (0~90A)	1mA (0~75A) 10mA (100~120A)	1mA (0~100A) 10mA (100~140A)	1mA (0~100A) 10mA (100~160A)	1mA (0~100A) 10mA (100~180A)	1mA (0~100A) 10mA (100~200A)
Accuracy	0.2%+10mA	0.2%+10mA	0.2%+10mA	0.2%+10mA	0.2%+10mA	0.2%+10mA	0.2%+10mA

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Constant Voltage Mode							
Range	0~500V	0~500V	0~500V	0~500V	0~500V	0~500V	0~500V
Resolution	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~500V)
Accuracy	0.2%+10mV	0.2%+10mV	0.2%+10mV	0.2%+10mV	0.2%+10mV	0.2%+10mV	0.2%+10mV
Constant Resistance Mode							
Low Range	0.02Ω~2.4MΩ	0.02Ω~2.4MΩ	0.02Ω~2.4MΩ	0.02Ω~2.4MΩ	0.02Ω~2.4MΩ	0.02Ω~2.4MΩ	0.02Ω~2.4MΩ
Resolution	0.1mΩ	0.1mΩ	0.1mΩ	0.1mΩ	0.1mΩ	0.1mΩ	0.1mΩ
Accuracy @I>6A	0.5%+12mΩ	0.5%+12mΩ	0.5%+12mΩ	0.5%+12mΩ	0.5%+12mΩ	0.5%+12mΩ	0.5%+12mΩ
High Range	0.2KΩ~240K	0.2KΩ~240K	0.2KΩ~240K	0.2KΩ~240K	0.2KΩ~240K	0.2KΩ~240K	0.2KΩ~240K
Resolution	0.001KΩ	0.001KΩ	0.001KΩ	0.001KΩ	0.001KΩ	0.001KΩ	0.001KΩ
Accuracy @I<6A	0.5%+0.12KΩ	0.5%+0.12KΩ	0.5%+0.12KΩ	0.5%+0.12KΩ	0.5%+0.12KΩ	0.5%+0.12KΩ	0.5%+0.12KΩ
Constant Power Mode							
Range	0~1000W	0~1500W	0~2000W	0~2400W	0~3000W	0~4000W	0~5000W
Resolution @P <	1mW	1mW	1mW	1mW	1mW	1mW	1mW

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100W	10mW	10mW	10mW	10mW	10mW	10mW	10mW
@P≥100W	100mW	100mW	100mW	100mW	100mW	100mW	100mW
@P≥1000W	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW
Accuracy							
Current Measurement							
Low Range	0~6A	0~6A	0~6A	0~6A	0~8A	0~8A	0~8A
Resolution	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA	0.1mA
Accuracy	0.1%+6mA+Vin/50KΩ	0.1%+6mA+Vin/50KΩ	0.1%+6mA+Vin/50KΩ	0.1%+6mA+Vin/50KΩ	0.1%+6mA+Vin/50KΩ	0.1%+6mA+Vin/50KΩ	0.1%+6mA+Vin/50KΩ
High Range	0~60A	0~90A	0~120A	0~140A	0~160A	0~180A	0~200A
Resolution	1mA (0~60A)	1mA (0~90A)	1mA (0~120A)	1mA (0~100A)	1mA (0~100A)	1mA (0~100A)	1mA (0~100A)
Accuracy	± (0.2%+8 mA) +Vin/50KΩ	± (0.2%+8 mA) +Vin/50KΩ	± (0.2%+8 mA) +Vin/50KΩ	± (0.2%+8 mA) +Vin/50KΩ	± (0.2%+8 mA) +Vin/50KΩ	± (0.2%+8 mA) +Vin/50KΩ	± (0.2%+8 mA) +Vin/50KΩ
Voltage Measurement							
Range	0~500V	0~500V	0~500V	0~500V	0~500V	0~500V	0~500V
Resolution	1mV (0~100V)	1mV (0~100V)	1mV (0~100V)	1mV (0~100V)	1mV (0~100V)	1mV (0~100V)	1mV (0~100V)
	10mV (100~500V)	10mV (100~500V)	10mV (100~500V)	10mV (100~500V)	10mV (100~500V)	10mV (100~500V)	10mV (100~500V)

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Accuracy	0.1%+20mV	0.1%+20mV	0.1%+20mV	0.1%+20mV	0.1%+20mV	0.1%+20mV	0.1%+20mV
Power Measurement							
Range	0~1000W	0~1500W	0~2000W	0~2400W	0~3000W	0~4000W	0~5000W
Resolution	1mW	1mW	1mW	1mW	1mW	1mW	1mW
@P<100W	10mW	10mW	10mW	10mW	10mW	10mW	10mW
@P≥100W	100mW	100mW	100mW	100mW	100mW	100mW	100mW
@P≥1000W	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW
Accuracy							
Current Slew Rate							
Range ^{*3}	1mA/us~6A/us	1mA/us~9A/us	1mA/us~10A/us	1mA/us~10A/us	1mA/us~12A/us	1mA/us~15A/us	1mA/us~15A/us
CCH							
CCL ^{*2}	100uA/us~600mA/us	100uA/us~600mA/us	100uA/us~600mA/us	100uA/us~600mA/us	100uA/us~600mA/us	100uA/us~600mA/us	100uA/us~600mA/us
Resolution ^{*4}	1mA/us	1mA/us	1mA/us	1mA/us	1mA/us	1mA/us	1mA/us
Accuracy	3% + 10us	3% + 10us	3% + 10us	3% + 10us	3% + 10us	3% + 10us	3% + 10us
Transient Operation							
Transient Mode	Continuous, Pulse, Toggled	Continuous, Pulse, Toggled	Continuous, Pulse, Toggled	Continuous, Pulse, Toggled	Continuous, Pulse, Toggled	Continuous, Pulse, Toggled	Continuous, Pulse, Toggled

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Frequency Rang	0.025Hz~50kHz	0.025Hz~50kHz	0.025Hz~50kHz	0.025Hz~50kHz	0.025Hz~50kHz	0.025Hz~50kHz	0.025Hz~50kHz
High/Low Level	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s
Time	10us	10us	10us	10us	10us	10us	10us
Resolution	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us
Accuracy							
raise/ falling edge	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s
Resolution	10us	10us	10us	10us	10us	10us	10us
Accuracy	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us
List Operation							
Step Time	10us~99999s	10us~99999s	10us~99999s	10us~99999s	10us~99999s	10us~99999s	10us~99999s
Resolution	10us	10us	10us	10us	10us	10us	10us
Accuracy	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us	0.2%+10us
Number of Steps	1~50 Steps	1~50 Steps	1~50 Steps	1~50 Steps	1~50 Steps	1~50 Steps	1~50 Steps
Cycle	1~255	1~255	1~255	1~255	1~255	1~255	1~255
Store Capacity	10 Groups	10 Groups	10 Groups	10 Groups	10 Groups	10 Groups	10 Groups
Expansion Function	Chain	Chain	Chain	Chain	Chain	Chain	Chain
Maximum Slew Rate							
Current	6A/us	9A/us	10A/us	10A/us	12A/us	15A/us	15A/us

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Voltage	0. 5V/us	0. 6V/us	0. 5V/us	0. 6V/us	0. 6V/us	0. 6V/us	0. 6V/us
Programmable Open Circuit	$\geq 20k \Omega$	$\geq 20k \Omega$	$\geq 20k \Omega$	$\geq 20k \Omega$	$\geq 20k \Omega$	$\geq 20k \Omega$	$\geq 20k \Omega$
Trigger Input							
Trigger Level	TTL falling edge	TTL falling edge	TTL falling edge	TTL falling edge	TTL falling edge	TTL falling edge	TTL falling edge
Trigger Pulse	$\geq 10us$	$\geq 10us$	$\geq 10us$	$\geq 10us$	$\geq 10us$	$\geq 10us$	$\geq 10us$
Width							
Maximum DC Input							
Current	61A	91A	121A	141A	161A	181A	201A
Voltage	502V	502V	502V	502V	502V	502V	502V
Protection and Alarm Function	OC, OT, OP	OC, OT, OP	OC, OT, OP	OC, OT, OP	OC, OT, OP	OC, OT, OP	OC, OT, OP
Alarm Function	OV, RV	OV, RV	OV, RV	OV, RV	OV, RV	OV, RV	OV, RV
Reverse Current Capacity							
Input OFF	50A	80A	100A	120A	150A	160A	160A
Input ON	60A	90A	120A	140A	160A	180A	200A
Ripple & Noise							
Current (rms/p-p)	3mA/30mA	3mA/30mA	3mA/30mA	3mA/30mA	5mA/30mA	8mA/30mA	8mA/30mA
Voltage (rms)	5mV	5mV	5mV	5mV	5mV	5mV	5mV
Environmental Conditions							

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Temperature ^{*1}	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C	0~40°C
Relative Humidity	≤85%	≤85%	≤85%	≤85%	≤85%	≤85%	≤85%
Remote Interface ^{*5}	RS232, GPIB, USB	RS232, GPIB, USB	RS232, GPIB, USB	RS232, GPIB, USB	RS232, GPIB, USB	RS232, GPIB, USB	RS232, GPIB, USB
Programmable Language	SCPI	SCPI	SCPI	SCPI	SCPI	SCPI	SCPI
AC Input							
Voltage	(AC110V, AC120V, AC220V, AC240V) ±10%	(AC110V, AC120V, AC220V, AC240V) ±10%	(AC110V, AC120V, AC220V, AC240V) ±10%	(AC110V, AC120V, AC220V, AC240V) ±10%	(AC110V, AC120V, AC220V, AC240V) ±10%	(AC110V, AC120V, AC220V, AC240V) ±10%	(AC110V, AC120V, AC220V, AC240V) ±10%
Frequency	48 to 63Hz	48 to 63Hz	48 to 63Hz	48 to 63Hz	48 to 63Hz	48 to 63Hz	48 to 63Hz
Input Power	80VA	80VA	80VA	80VA	130VA	130VA	130VA
Outline Dimension							
Net Weight	24kg	24kg	26.5kg	26.5kg	38kg	42kg	45kg
Frame	Fig1	Fig 1	Fig 1	Fig 1	Fig 2	Fig 2	Fig 2

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- *1. The maximum continuous input power can reach the rated power at 40°C; the maximum continuous input power will linearly decrease from 100% to 75% between 40°C to 50°C.
- *2. The current change rate is 600mA/us in CCL mode.
- *3. The transition time is defined as the time required for the input to change from 10% to 90%.
- *4. The transient frequency depends on the high/low level time and the time for rising/falling edge.
- *5. Standard equipped RS232 and USB cable, optional equipped GPIB card.

