

Specifications

Model	3750A	3751A	3752A	3753A	3754A	3755A	3756A
Current	0~100A	0~150A	0~75A	0~160A	0~180A	0~240A	0~260A
Voltage	0~240V	0~240V	0~240V	0~240V	0~240V	0~240V	0~240V
Power ^{*1}	1500W at 40°C	2000W at 40°C	1000W 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	0~100A	0~150A	0~75A	0~160A	0~180A	0~240A	0~260A
Resolution	1mA (0~100A)	1mA (0~100A) 10mA (100~150A)	1mA (0~75A)	1mA (0~100A) 10mA (100~160A)	1mA (0~100A) 10mA (100~180A)	1mA (0~100A) 10mA (100~240A)	1mA (0~100A) 10mA (100~260A)

Constant Power Mode							
Range	0~1500W	0~2000W	0~1000W	0~2400W	0~3000W	0~4000W	0~5000W
Resolution @P < 100W	1mW	1mW	1mW	1mW	1mW	1mW	1mW
@P≥100W	10mW	10mW	10mW	10mW	10mW	10mW	10mW
@P≥1000W	100mW	100mW	100mW	100mW	100mW	100mW	100mW
Accuracy	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW
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	0~100A	0~150A	0~75A	0~160A	0~180A	0~240A	0~260A
Resolution	1mA (0~100A)	1mA (0~100A)	1mA (0~75A)	1mA (0~100A)	1mA (0~100A)	1mA (0~100A)	1mA (0~100A)
Accuracy	± (0.2%+8mA) +Vin/50KΩ	± (0.2%+8mA) +Vin/50KΩ	± (0.2%+8mA) +Vin/50KΩ	± (0.2%+8mA) +Vin/50KΩ	± (0.2%+8mA) +Vin/50KΩ	± (0.2%+8mA) +Vin/50KΩ	± (0.2%+8mA) +Vin/50KΩ
10mA (100~150A)	10mA (100~150A)	10mA (100~160A)	10mA (100~180A)	10mA (100~240A)	10mA (100~260A)		

Voltage Measurement

Range	0~240V	0~240V	0~240V	0~240V	0~240V	0~240V	0~240V
Resolution	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~240V)
Accuracy	0.1%+8mV	0.1%+8mV	0.1%+8mV	0.1%+8mV	0.1%+8mV	0.1%+8mV	0.1%+8mV
Power Measurement							
Range	0~1500W	0~2000W	0~1000W	0~2400W	0~3000W	0~4000W	0~5000W
Resolution							
@P<100W	1mW	1mW	1mW	1mW	1mW	1mW	1mW
@P≥100W	10mW	10mW	10mW	10mW	10mW	10mW	10mW
@P≥1000W	100mW	100mW	100mW	100mW	100mW	100mW	100mW
Accuracy	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW
Current Slew Rate							
Range ^{*3}							
CCH	1mA/us~10A/us	1mA/us~15A/us	1mA/us~7.5A/us	1mA/us~16A/us	1mA/us~18A/us	1mA/us~20A/us	1mA/us~22A/us
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
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							
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
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	10Groupsd	10Groupsd	10Groupsd	10Groupsd	10Groupsd	10Groupsd	10Groupsd
Expansion Function	Chain	Chain	Chain	Chain	Chain	Chain	Chain
Maximum Slew Rate							

Environmental Conditions							
Temperature ^{*1}	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	0~50°C	0~50°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	26.5kg	24kg	38kg	38kg	42kg	45kg
Frame	Fig1	Fig 1	Fig 1	Fig 1	Fig 2	Fig 2	Fig 2

- *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.

