

Specifications

Model	3730A	3731A	3732A	3733A	3734A	3735A
Current	0~50A	0~60A	0~26A	0~32A	0~20A	0~12A
Voltage	0~240V	0~240V	0~500V	0~500V	0~800V	0~1200V
Power ^{*1}	600W at 40°C	800W at 40°C	600W at 40°C	800W at 40°C	500W at 40°C	700W at 40°C
Input Characteristics						
Constant Current Mode						
Low Range	0~5A	0~6A	0~3A	0~3A	0~2A	0~2A
Resolution	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
High Range	0~50A	0~60A	0~26A	0~32A	0~20A	0~12A
Resolution	1mA (0~50A)	1mA (0~60A)	1mA (0~26A)	1mA (0~32A)	1mA (0~20A)	1mA (0~12A)
Accuracy	0.2%+10mA	0.2%+10mA	0.2%+10mA	0.2%+10mA	0.2%+10mA	0.2%+10mA
Constant Voltage Mode						

Accuracy	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW
Current Measurement						
Low Range*2	0~5A	0~6A	0~3A	0~4A	0~2A	0~2A
Resolution	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
High Range	0~50A	0~90A	0~120A	0~140A	0~160A	0~180A
Resolution	1mA (0~50A)	1mA (0~90A)	1mA (0~120A)	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
Voltage Measurement						
Range	0~240V	0~240V	0~500V	0~500V	0~800V	0~1200V
Resolution	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~240V)	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~500V)	1mV (0~100V) 10mV (100~800V)	1mV (0~100V) 10mV (100~1000V) 100mV (1000~1200V)
Accuracy	0.1%+8mV	0.1%+8mV	0.1%+8mV	0.1%+8mV	0.1%+8mV	0.1%+10mV
Power Measurement						

Rising/ falling time	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s	10us~10s
Resolution	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
List Characteristics						
Step Time	10us~99999s	10us~99999s	10us~99999s	10us~99999s	10us~99999s	10us~99999s
Resolution	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
Number of 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
Store Capacity	10 lists	10 lists	10 lists	10 lists	10 lists	10 lists
Expansion Function	Chain	Chain	Chain	Chain	Chain	Chain
Maximum Slew Rate						
Current ^{*3}	5A/us	6A/us	3A/us	4A/us	2A/us	1.2A/us
Voltage	0.6V/us	0.6V/us	0.6V/us	0.6V/us	0.6V/us	0.6V/us
Programmable Open Circuit	≥20k Ω	≥20k Ω	≥20k Ω	≥20k Ω	≥20k Ω	≥20k Ω
Trigger Input						
Trigger Level	TTL falling edge	TTL falling edge	TTL falling edge	TTL falling edge	TTL falling edge	TTL falling edge
Trigger Pulse Width	≥10us	≥10us	≥10us	≥10us	≥10us	≥10us
Maximum Input Levels						

Current	51A	61A	26A	32A	21A	12A
Voltage	242V	242V	502V	502V	802V	1202V
Protection and Alarm Function	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
Reverse Current Capacity						
Input OFF	40A	50A	25A	30A	20A	15A
Input ON	50A	60A	26A	32A	20A	12A
Ripple and Noise						
Current (rms/p-p)	3mA/30mA	3mA/30mA	3mA/30mA	3mA/30mA	5mA/30mA	8mA/30mA
Voltage (rms)	5mV	5mV	18mV	18mV	20mV	30mV
Environmental Conditions						
Temperature *1	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%
Remote Interface *5	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

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%
Frequency	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
Net Weight	12kg	12kg	12kg	12kg	12kg	42kg

- *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 the set value*1/25 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.