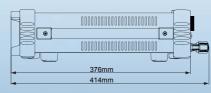
3720A/3721A Specifications

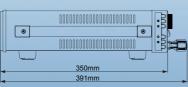
Model	3720A	3721A
Input Ratings		
Current	0 ~ 30A	0 ~ 40A
Voltage	0~80V	0~80V
Power*1	250W at 40	400W at 40
Input Characteristics		
	V ♠	v •
Input Characteristics	Max Power Contour	80V Max Power Contour
input Characteristics		100
	6.2V 0.6V 0 3.1A 30A	0.6V 0.5A 40A I
Minimum Operation Voltage	0.6V	
@ Full Scale Current	0.60	0.6V
Constant Current Mode		
Low Range	0 ~ 3A	0 ~ 4A
Resolution Accuracy	0.1mA 0.1%+5mA	0.1mA 0.1%+5mA
High Range	0~30A	0~40A
Resolution	1mA	1mA
Accuracy	0.1%+10mA	0.1%+10mA
Constant Voltage Mode		
Range	0 ~ 80V	0 ~ 80V
Resolution	1mV 0.1%+10mV	1mV 0.1%+10mV
Accuracy	U.170+1UITIV	U.170+1UITIV
Constant Resistance Mode	0.00.00	0.00
Low Range Resolution	0.02 ~ 2Ω 0.1mΩ	0.02 ~ 2Ω 0.1mΩ
Accuracy @I>4A	0.5%+12mΩ	0.5%+12mΩ
Middle Range	2~200	2~200Ω
Resolution	8.6uS*2	8.6uS
Accuracy @V>8V	0.3%+1.25mS	0.3%+1.25mS
High Range Resolution	20 ~ 2000Ω 0.96uS	20 ~ 2000Ω 0.96uS
Accuracy @V>8V	0.3%+0.625mS	0.3%+0.625mS
Constant Power Mode		
Range	0 ~ 250W	0 ~ 400W
Resolution @P<100W	1mW	1mW
@P 100W	10mW	10mW
Accuracy	0.2%+600mW	0.2%+600mW
Current Measurement	T	
Low Range Resolution	0 ~ 3A 0.1mA	0 ~ 4A 0.1mA
Accuracy	0.05%+4mA	0.05%+4mA
High Range	0 ~ 30A	0 ~ 40A
Resolution	1mA	1mA
Accuracy	0.05%+8mA	0.05%+8mA
Voltage Measurement		
Range	0 ~ 80V 1mV	0 ~ 80V 1mV
Resolution Accuracy	0.1%+8mV	0.1%+8mV
Power Measurement		
Range	0 ~ 250W	0 ~ 400W
Resolution @P<100W	1mW	1mW
@P 100W	10mW	10mW
Accuracy	0.1%+600mW	0.1%+600mW
Current Slew Rates		
Range CCH	1mA/us ~ 3A/us	1mA/us ~ 4A/us
CCL*3	100uA/us ~ 300mA/us	100uA/us ~ 400mA/us
Resolution	1mA/us	1mA/us
Accuracy*4	3% + 10us	3% + 10us
Transient Operation	2	
Transient Mode	Continuous, Pulse, Toggled	Continuous, Pulse, Toggled
Frequency Range*5	0.38Hz ~ 50kHz	0.38Hz ~ 50kHz
High/Low Time	0 ~ 655.35ms	0 ~ 655.35ms
Resolution	10us	10us
Accuracy	0.2%+10us	0.2%+10us
Rising/Falling Time	10us ~ 655.35ms	10us ~ 655.35ms
Resolution Accuracy	10us 0.2%+10us	10us 0.2%+10us
·	0.270 + 1003	0.270T10U3
List Characteristics	40 400000	40 400000
Step Time Resolution	10us ~ 100000s 10us	10us ~ 100000s 10us
Accuracy	0.2%+10us	0.2%+10us
Number of Steps	1 ~ 50	1 ~ 50
Number of Steps Cycle	1 ~ 50 1 ~ 65535	1 ~ 50 1 ~ 65535

Model	3720A	3721A
Battery Discharge		
Discharge Time	1s~100h	1s~100h
Resolution	1s	1s
Accuracy	0.2%+1s	0.2%+1s
Battery Capacity	1mAh ~ 3000Ah	1mAh ~ 4000Ah
Resolution	1mAh	1mAh
Accuracy	0.3%+0.01Ah	0.3%+0.01Ah
Short Circuit		
CCL	3.3A	4.4A
CCH	33A	44A
CV	0V	0V
CRL	0.018	0.018
CRM	1.8	1.8
CRH	18	18
CPV	270W	420W
CPC	0W	0W
Maximum Slew Rate		
Current	3A/us	4A/us
Voltage	0.6V/us	0.6V/us
Programmable Open Circuit	20kΩ	20kΩ
,	2002	2002
Trigger Input		I
Trigger Level	TTL falling edge	TTL falling edge
Trigger Pulse Width	10us	10us
Maximum Input Levels		
Current	33A	44A
Voltage	84V	84V
Protection Features	OV, OC, OP, OT, RV	OV, OC, OP, OT, RV
Reverse Current Capacity		
Input OFF	25A	30A
Input ON	40A	50A
Ripple and Noise	1071	0071
Current(rms/p-p)	3mA/30mA	3mA/30mA
Voltage(rms)	5mV	5mV
Environmental Conditions	JIIIV	JIIIV
	0 50	0.50
Temperature	0 ~ 50	0 ~ 50
Relative Humidity	85%	85%
Remote Interface*6	RS232, GPIB, USB	RS232, GPIB, USB
Programming Language	SCPI	SCPI
AC Input		
Voltage	AC110V or AC220V ± 15%	AC110V or AC220V ± 15%
Frequency	48 to 63Hz	48 to 63Hz
Net Weight	5.8kg	5.8kg









Distributor information:







DC Electronic Load

The feature rich, 3720A and 3721A Electronic Loads provide an adaptable, and functional asset wherever power sources need to be tested. These units are designed to provide high reliability, great performance, and ease of operation with multiple functionality. Each unit provides:

- 4 operating modes: Constant Current, Constant Voltage, Constant Resistance, Constant
- High-speed sequence, high-speed transient, short-circuit, battery discharge and other auxiliary functions:
- Minimum operating voltage is less than 0.6V at the load's full rated current;
- Optional zero-voltage test accessories are available;
- Programmable current slew rate;
- Perfect protection assures high reliability in the most complicated test environment;
- Multiple groups of parameters and sequences can be saved and recalled;
- Ruggedized structure, exquisite user-friendly design and convenient operation;
- Supports SCPI (Standard Commands for Programmable Instrumentation) and Labview, and provides necessary PC software.



^{*2.} Conductance (S) = 1 / Resistance (Ω). The siemens is the SI derived unit of conductance, and the symbol is "S".

symbol is "5".

3. The set level is 10 times larger than the slew rate in CCL mode.

*4. The actual transition time is defined as the time required for the input to change from 10% to 90% or from 90% to 10% of the programmed excursion.

*5. Transient frequency depends on the time for high/low level and rising/falling edge.

*6. Full remote control via RS232 with optional GPIB and USB.