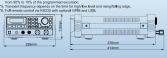
372X Series Specifications

Model	3720A	3721A	3722A	3723A		
Current	0 ~ 30A	0 ~ 40A	0 ~ 20A	0~30A		
Voltage	0 - 80V 250W at 40°C	0 - 80V 400W at 40°C	0 - 200V 200W at 40°C	0 ~ 200V 350W at 40°C		
Power'1	250W at 40 C	400W at 40 C	200W at 40 C	350W at 40 C		
nput Characteristics						
		À	i i	1		
Input Characteristics	10V 20W	NOV 1000	2007	2007		
input Critinacionalica						
	220 200	100 M 400 1	(5) - 1	1170		
Ainimum Operation Voltage	0.017		1.2V			
P Full Scale Current	0 . 6V		1.20			
Constant Current Mod	de					
Low Range	0 - 3A	0 - 4A	0-2A	0 - 3A		
Resolution Accuracy	0.1mA 0.1%+5mA	0.1mA 0.1%+5mA	0.1mA 0.1%+5mA	0.1mA 0.1%+5mA		
High Range	0.1%+9HA	0.1%+SIDA 0 ~ 40A	0.1%+9HA	0.1 %+SHIA 0 ~ 30A		
Resolution	0~30A 1mA	0~40A	1mA	1mA		
Accuracy	0.1%+10mA	0.1%+10mA	0.1%+10mA	0.1%+10mA		
Constant Voltage Mor						
Range	0~8	80V	0 ~ 200V			
Resolution	1m	١V	2mV			
Accuracy	0.1%+	10mV	0.1%-	+25mV		
Constant Resistance						
Low Range	0.02		0.0666	~ 6.66Ω		
Resolution Accuracy @I>4A	0.1mΩ		0.1mΩ			
	0.5%+12mΩ@l>4A		0.5%+40mΩ@I>3A			
Middle Range Resolution	2 – 200 Ω 8.6uS* ²		6.66 – 666 Ω 2.6uS*2			
Accuracy @V>8V	0.3%+1.25mS@V > 8V		0.3%+375uS@V > 20V			
High Range	20 - 2		66.6 − 6660Ω			
Resolution	0.9	6uS	0.29uS			
Accuracy @V>8V	0.3%+0.625mS@V > 8V		0.3%+188uS@V > 20V			
Constant Power Mode	9					
Range	0 - 250W	0 - 400W	0 - 200W	0 - 350W		
Resolution ® P<100W ® P⇒100W	1mW 10mW	1mW 10mW	1mW 10mW	1mW 10mW		
Accuracy	0.2%+600mW	0.2%+600mW	0.2%+600mW	0.2%+600mW		
Current Measuremen						
Low Range	0~3A	0 ~ 4A	0 ~ 2A	0 ~ 3A		
Resolution	0.1mA	0.1mA	0.1mA	0.1mA		
Accuracy	0.05%+4mA	0.05%+4mA	0.05%+4mA	0.05%+4mA		
High Range	0 - 30A	0 - 40A	0 ~ 20A	0 - 30A		
Resolution Accuracy	1mA 0.05%+8mA	1mA 0.05%+8mA	1mA 0.05%+8mA	1mA 0.05%+8mA		
		U.U376+011IA	0.05%+6HA	0.05%+6IIIA		
/oltage Measuremen						
Range Resolution	0~:		0 ~ 200V 1mV			
Accuracy		1mV 0.1%+8mV		0.1%+50mV		
Power Measurement						
Range	0 - 250W	0 - 400W	0 - 200W	0 - 350W		
Resolution @P<100W	1mW	1mW	1mW	1mW		
©P⇒100W Accuracy	10mW 0.1%+600mW	10mW 0.1%+600mW	10mW 0.1%+600mW	10mW 0.1%+600mW		
	U.176+6UUMW	0.176+600mW	0.176+600mW	0.1%+600mW		
Current Slew Rates						
Range CCH	1mA/us ~ 3A/us	1mA/us ~ 4A/us	1mA/us ~ 2A/us	1mA/us ~ 3A/us		
CCL ⁻³	100uA/us - 300mA/us	100uA/us - 400mA/us	100uA\us - 200mA\us	100uAlus - 300mAlus		
Resolution		1m/				
Accuracy ¹⁴		3% +	10us			
ransient Operation						
Transient Mode	Continuous, Pulse, Toggled					
Frequency Range'5	0.38Hz ~ 50kHz					
	0.38HZ ~ 50KHZ 0 ~ 655.35ms					
High/Low Time Resolution	0 ~ 655.35ms 10us					
Accuracy	0.2%+10us					
Rising/Falling Time	10us - 655,35ms					
Resolution	10us					
Accuracy		0.2%-	+10us			
List Characteristics						

Model	3720A	3721A	3722A	3723A		
Discharge Time		18-	100h			
Resolution	18					
Accuracy	0.2%+1s					
Battery Capacity	1mAh ~ 3000Ah	1mAh ~ 4000Ah	1mAh ~ 2000Ah	1mAh ~ 3000Ah		
Resolution Accuracy	1mAh 0.3%+0.01Ah	1mAh 0.3%+0.01Ah	1mAh 0.3%+0.01Ah	1mAh 0.3%+0.01Ah		
	0.076TO.01A11	0.03690,01741	0.0 (6 TO (0 TAI)	0.376TO,01AII		
Short Circuit						
CCL	3.3A	4.4A	2.2A	3.3A		
CCH	33A 0V	44A 0V	22A 0V	33A 0V		
CRL.	0.0180	0.0180	0.060	0.060		
CRM	180	180	60	60		
CRH	180	180	60 O	600		
CPV	270W	420W	220W	370W		
CPC	OW	OW	OW	ow		
Maximum Slew Rate	e					
Current	3A/us	4A/us	2A/us	3A/us		
Voltage	0.6V/us	0.6V/us	0.6V/us	0.6V/us		
Programmable Open Circuit	≥20kQ					
Frigger Input						
Trigger Level		TTI falli	ing edge			
Trigger Pulse Width	≥ 10us					
Maximum Input Lev	els					
Current	33A	44A	22A	33A		
Voltage	84V	84V	210V	210V		
Protection Features	OV. OC. OP. OT. RV					
Reverse Current Ca	inacity.	04,00,0	JI , OI, III			
Input OFF	25A	30A	25A	25A		
Input ON	40A	50A	35A	40A		
Ripple and Noise						
Current(rms/p-p)	3mA/30mA 3mA/30mA					
Voltage(rms)		nV	12mV			
Environmental Cond	fitions					
Temperature	T		E090			
Relative Humidity	0 ~ 50°C ≤85%					
Remote Interface ¹⁶	RS232, GPIB, USB					
Programming Language	SCPI					
	•					
AC Input						
Voltage Frequency	ı	AC110V or	AC220V + 15%			

- bot is *5°.
 set level is 10 times larger than the slew rate in CCL mode, seatled is 10 times the set level is 10 times to seatled learning to the input to change for earlied timestice time is defined as the time required for the input to change for select, to the programmed excursion, seater frequency depends on the time for high low level and rising/falling edge, remote control or REXE2 with optional GPBs and USB.













372X Series

DC Electronic Load

The feature rich, 372X Series DC 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 lest accessories are available;
 Programmable current siew 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.



High Reliability

- Protective circuitry provides over-current, over-voltage, over-power, over-temperature and reverse polarity protection to ensure the protection of the electronic load;
 A high-speed, power limiting circuit can limit input power rapidly when it is overloaded, thus there is no need to interrupt testing. Equipment adaptability to complicated operational environments is thereby greatly enhanced.
 A high-efficiency, intelligent cooling system can effectively reduce system temperature and enhance power density:
- Inverse reduce system temperature and enhance power density;
 The input binding posts with their innovative design are especially suitable for large current testing. They are easy to operate, reliable and durable;
 The specially ruggedized case with its rubber bumpers protects the load thus effectively prolonging the unit's service life.

Great Performance

- Great Performance

 Circuit improvement greatly enhances the dynamic response of CR mode and widens the application scope of that mode;

 The innovative CPV and CPC modes can be applied to testing voltage/current source with constant power respectively, and both modes can effectively prevent short circuit when the set power level of the load exceeds the output power of the power supply;

 Minimum operating voltage is less than 0.6V at the load's full rated current. With optional low-voltage testing devices, the maximum current can be achieved even though the input voltage is 0V. This is especially suitable for fuel cell, solar cell and other new energy test applications;

 By adopting the optimum algorithm and high-speed hardware circuitry, the D/A conversion rate can reach up to 100kHz. The overall smoothness of slope control has been raised, meanwhile, the timing precision and resolution of transient test and sequential test have also been improved;





• The 24 bit A/D and 17 bit D/A converters incorporated, provide this equipment with greatly enhanced setting and measurement resolution.

Multifunction

- Equipped with four basic test modes: CC, CV, CR, CP;
- High-speed transient operation with separate high/low level time and rising/falling time control;

 Powerful sequential test function; with a minimum step time of 10us; and a maximum step time of 10us; and a sequence cyclic numbers can be adjusted freely and a sequence.
- can be chained to another sequence to achieve even more complex test procedures;

 Providing short-circuit test, battery discharge test and other auxiliary functions;

 Remote sense input terminals and trigger input terminal are provided. The remote measurement can monitor the input signal automatically, and it is not necessary to change wiring or modify settings during operation;

 10 groups of setup parameters can be saved, and the preset parameters saved in location 0 can be recalled automatically at power-on;

 By supporting SCPI, it is easy to build an ATE(automatic test equipment) system that works with other programm-able instruments via optional RS232, USB and GPIB interfaces.

- Design optimized for portability and rugged reliability;
 Logical keypad design and convenient test operation;
 Easy-to-set test parameters coupled with a powerful sequence editing function;
 All electronic calibration therefore no need to dismantle the equipment-chassis;
 Firmware can be updated online.











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