

Specifications

The performance specifications of ARRAY 366X are listed in this chapter in details (Specifications are warranted in the temperature range of $25\pm 2^{\circ}\text{C}$ with a resistive load.). Please consult the relevant data in actual use.

Performance Specifications

	3661A	3662A	3663A	3664A	3665A
Output Ratings					
Voltage	0~20V	0~35V	0~80V	0~120V	0~200V
Current	0~25A	0~14.5A	0~6.5A	0~4.2A	0~2.5A
Ripple and Noise (20 Hz to 20 MHz)					
Voltage (root mean square value)	<3mVrms	<3mVrms	<5mVrms	<15mVrms	<20mVrms
Voltage (peak-to-peak value)	<10mVp-p	<10mVp-p	<14mVp-p	<80mVp-p	<80mVp-p
Current	<10mArms	<8mArms	<6mArms	<5mArms	<4mArms
Common Mode Current	1.5mArms	1.5mArms	1.5mArms	1.5mArms	1.5mArms
Load Regulation					
Voltage	3mV	5mV	10mV	10mV	10mV
Current	3mA	3mA	2mA	1mA	1mA
Line Regulation					
Voltage	5mV	5mV	10mV	10mV	10mV
Current	3mA	3mA	2mA	1mA	1mA
Programming Accuracy					
Voltage	0.03%+5mV	0.03%+5mV	0.03%+10mV	0.03%+15mV	0.03%+5mV
Current	0.5%+8mA	0.5%+6mA	0.5%+5mA	0.5%+5mA	0.5%+5mA
Readback Accuracy					
Voltage	0.02%+2mV	0.02%+2mV	0.02%+5mV	0.02%+8mV	0.02%+2mV
Current	0.2%+8mA	0.2%+5mA	0.2%+5mA	0.2%+5mA	0.2%+5mA
Programming Resolution					
Voltage	1mV	1mV	1mV	1mV(@0-100V) 10mV(@100-120V)	1mV(@0-100V) 10mV(@100-200V)
Current	1mA	1mA	1mA	1mA	1mA

Readback Resolution					
Voltage	1mV	1mV	2mV	4mV	4mV
Current	1mA	1mA	1mA	1mA	1mA
Meter Resolution					
Voltage	1mV	1mV	2mV	10mV	10mV
Current	1mA	1mA	1mA	1mA	1mA

Transient Response Time

Less than 1ms for output to recover to within 100 mV following a change in output current from full load to half load or vice versa

Command Processing Time

Programming Commands: Maximum time for output to change after receiving APPLy and SOURce commands: <50msec

Readback Command: Maximum time to readback output MEASure? command: <100msec

The Other Commands: < 50msec

Supplemental Characteristics

Output Programming Range (maximum programmable values)

	3661A	3662A	3663A	3664A	3665A
Voltage	0~20.2V	0~35.2V	0~80.2V	0~120.2V	0~200.2V
Current	0~25A	0~14.5A	0~6.5A	0~4.2A	0~2.5V

Temperature Coefficient, \pm (% of output + offset)

Maximum change in output/readback per °C after a 30-minute warm-up.

	3661A	3662A	3663A	3664A	3665A
Voltage	30ppm+ 0.5mV	30ppm + 0.5mV	30ppm+ 0.8mV	30ppm+ 1mV	30ppm+ 1.5mV
Current	30ppm+ 0.5mV	30ppm + 0.2mA	30ppm+ 0.1mA	30ppm + 0.1mA	30ppm+ 0.1mV

Stability, \pm (% of output + offset)

Following a 30-minute warm-up, the change occurs in output within 8 hours under constant load, line, and ambient temperature.

	3661A	3662A	3663A	3664A	3665A
Voltage	0.02% + 2mV	0.02% + 2mV	0.02% +3mV	0.02% + 4mV	0.02% + 5mV
Current	0.2% + 8mA	0.1% + 6mA	0.05% + 3mA	0.05% +2mA	0.02% + 2mV

Voltage Programming Speed

Maximum time required for output voltage to settle within 10%-90% of its total

excursion (for resistive load). Command processing time is excluded.

	3661A	3662A	3663A	3664A	3665A
Full load Up	50msec	50msec	50msec	60msec	60msec
Full load Down	50msec	50msec	50msec	60msec	60msec
No load Up	50msec	50msec	50msec	60msec	60msec
No load Down	200msec	200msec	300msec	300msec	500msec

AC Input Ratings

AC100V-240V	47Hz~63Hz	750VA Max
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Operating Temperature

0~40°C	0~80%RH
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Cooling

Fan Cooling

Programming Language

SCPI (Standard Commands for Programmable Instruments)

Recommended Calibration Interval

1 year

Net Weight

5.5 kg

Dimensions

