

**検査成績表**  
(TEST REPORT)

品名<Model Name> ( 電源品質アナライザ<POWER QUALITY ANALYZER> )  
 形名<Model Number> ( PQ3100 )  
 製造番号<Serial No.> ( No. 161012345 )  
 検査年月日<Test Date> ( 2016-10-03 )  
 <YYYY-MM-DD>  
 検査条件<Test Conditions> ( 25.0 °C, 50 %rh )

**1. 電圧精度<Voltage Accuracy>**

項目 <Item>	レクティファイア <Rectif>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>	* 校正値<Calibration Value>			
			<Volt>	<Freq>		CH1	CH2	CH3	CH4
電圧 <Voltage>	RMS AC+DC	1000V	1000V	60Hz	998.0 V ~ 1002.0 V	( 1000.0 V )	( 1000.1 V )	( 1000.1 V )	( 1000.1 V )
			400V	60Hz	399.20 V ~ 400.80 V	( 399.97 V )	( 399.97 V )	( 399.98 V )	( 399.97 V )
			200V	60Hz	199.60 V ~ 200.40 V	( 199.97 V )	( 199.98 V )	( 200.00 V )	( 199.99 V )
			100V	60Hz	99.80 V ~ 100.20 V	( 99.99 V )	( 99.99 V )	( 99.99 V )	( 99.97 V )
			10V	60Hz	9.80 V ~ 10.20 V	( 9.99 V )	( 9.99 V )	( 10.03 V )	( 10.02 V )
			0V	-	0.00 V ~ 0.00 V	( 0.00 V )	( 0.00 V )	( 0.00 V )	( 0.00 V )
	RMS1/2 AC+DC	1000V	1000V	60Hz	997.0 V ~ 1003.0 V	( 1000.0 V )	( 1000.1 V )	( 1000.0 V )	( 1000.1 V )
			400V	60Hz	398.80 V ~ 401.20 V	( 399.99 V )	( 400.00 V )	( 399.99 V )	( 399.99 V )
			200V	60Hz	199.40 V ~ 200.60 V	( 200.00 V )	( 200.02 V )	( 200.03 V )	( 200.02 V )
			100V	60Hz	99.70 V ~ 100.30 V	( 100.00 V )	( 99.99 V )	( 100.00 V )	( 99.98 V )
			10V	60Hz	9.70 V ~ 10.30 V	( 10.00 V )	( 9.99 V )	( 10.03 V )	( 10.03 V )
	DC	1000V	+1000V	DC	996.0 V ~ 1004.0 V	( 1000.0 V )	( 1000.1 V )	( 999.9 V )	( 1000.0 V )
			-1000V	DC	-1004.0 V ~ -996.0 V	( -1000.2 V )	( -1000.1 V )	( -1000.1 V )	( -1000.1 V )
			+10V	DC	8.97 V ~ 11.03 V	( 9.91 V )	( 9.95 V )	( 9.95 V )	( 9.95 V )
			-10V	DC	-11.03 V ~ -8.97 V	( -10.09 V )	( -10.01 V )	( -10.11 V )	( -10.10 V )
0V			-	0.00 V ~ 0.00 V	( 0.00 V )	( 0.00 V )	( 0.00 V )	( 0.00 V )	

**備考<Note>**

\* FAIL判定箇所は、グレー表示としています。<FAIL decision points are highlighted in gray.>

電流入力は、電圧による疑似入力で行っています。

<For current input, calibration value is conducted using a test voltage that simulates the condition corresponding to the specified current input.>

高調波歪率などの演算に依存する測定項目については検査を実施していませんが、仕様に規定されている全範囲について精度保証しています。  
 <Although measurement items (e.g., THD%) that are dependent on calculations are not inspected, the entire range stipulated in the specifications is guaranteed for accuracy.>

総合判定<Overall Result>	検査者<Inspected By>	承認者<Approved By>
( PASS )	( )	( )

SAMPLE

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**2. 電流精度<Current Accuracy>**

項目 <Item>	レクティファイア <Rectif>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>		* 校正値<Calibration Value>			
			<Curr>	<Freq>			CH1	CH2	CH3	CH4
電流 <Current>	RMS	500A	500A	60Hz	499.00 A ~ 501.00 A	( 500.04 A )	( 500.03 A )	( 500.04 A )	( 500.05 A )	
		AC+DC	100A	100A	60Hz	99.80 A ~ 100.20 A	( 99.99 A )	( 99.99 A )	( 100.00 A )	( 99.99 A )
			50A	50A	60Hz	49.900 A ~ 50.100 A	( 49.998 A )	( 49.998 A )	( 49.999 A )	( 49.998 A )
	10A		10A	60Hz	9.940 A ~ 10.060 A	( 9.999 A )	( 10.000 A )	( 9.998 A )	( 9.998 A )	
	2.5A		2.5A	60Hz	2.448 A ~ 2.552 A	( 2.501 A )	( 2.499 A )	( 2.502 A )	( 2.503 A )	
	0A	0A	-	0.000 A ~ 0.000 A	( 0.000 A )	( 0.000 A )	( 0.000 A )	( 0.000 A )		
	10A	10A	60Hz	9.980 A ~ 10.020 A	( 9.999 A )	( 9.999 A )	( 9.999 A )	( 10.000 A )		
	5A	5A	60Hz	4.9900 A ~ 5.0100 A	( 5.0004 A )	( 4.9997 A )	( 4.9999 A )	( 4.9994 A )		
	RMS1/2	AC+DC	500A	500A	60Hz	498.50 A ~ 501.50 A	( 499.99 A )	( 499.99 A )	( 500.00 A )	( 500.01 A )
			100A	100A	60Hz	99.70 A ~ 100.30 A	( 99.99 A )	( 99.99 A )	( 99.99 A )	( 99.99 A )
			50A	50A	60Hz	49.850 A ~ 50.150 A	( 49.988 A )	( 49.988 A )	( 49.989 A )	( 49.989 A )
		10A	10A	60Hz	9.930 A ~ 10.070 A	( 9.998 A )	( 9.999 A )	( 9.997 A )	( 9.997 A )	
		2.5A	2.5A	60Hz	2.445 A ~ 2.555 A	( 2.501 A )	( 2.500 A )	( 2.502 A )	( 2.503 A )	
		0A	0A	-	0.000 A ~ 0.000 A	( 0.000 A )	( 0.000 A )	( 0.000 A )	( 0.000 A )	
	10A	10A	60Hz	9.970 A ~ 10.030 A	( 9.999 A )	( 10.000 A )	( 10.000 A )	( 10.000 A )		
5A	5A	60Hz	4.9850 A ~ 5.0150 A	( 4.9999 A )	( 4.9992 A )	( 4.9994 A )	( 4.9990 A )			
DC	500A	+500A	DC	495.00 A ~ 505.00 A	( 499.84 A )	( 499.88 A )	( 500.02 A )	( 499.93 A )		
		0A	-	0.00 A ~ 0.00 A	( 0.00 A )	( 0.00 A )	( 0.00 A )	( 0.00 A )		
	100A	+100A	DC	99.00 A ~ 101.00 A	( 99.98 A )	( 99.96 A )	( 99.99 A )	( 99.99 A )		
		0A	-	0.00 A ~ 0.00 A	( 0.00 A )	( 0.00 A )	( 0.00 A )	( 0.00 A )		
	50A	+50A	DC	49.500 A ~ 50.500 A	( 49.995 A )	( 50.004 A )	( 50.003 A )	( 50.005 A )		
		-50A	DC	-50.500 A ~ -49.500 A	( -50.014 A )	( -49.987 A )	( -50.012 A )	( -49.999 A )		
		+2.5A	DC	2.238 A ~ 2.762 A	( 2.499 A )	( 2.517 A )	( 2.498 A )	( 2.506 A )		
		-2.5A	DC	-2.762 A ~ -2.238 A	( -2.516 A )	( -2.498 A )	( -2.504 A )	( -2.498 A )		
		0A	-	0.000 A ~ 0.000 A	( 0.000 A )	( 0.000 A )	( 0.000 A )	( 0.000 A )		
		10A	+10A	DC	9.900 A ~ 10.100 A	( 10.000 A )	( 10.002 A )	( 10.001 A )	( 10.002 A )	
0A	-	0.000 A ~ 0.000 A	( 0.000 A )	( 0.000 A )	( 0.000 A )	( 0.000 A )				

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 <YYYY-MM-DD>

**3. 有効電力精度<Active Power Accuracy>**

項目 <Item>	レクティファイア <Rectif>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>	* 校正値<Calibration Value>		
			<V,A,W,Hz,PF>			CH1	CH2	CH3
力率 1 (cos φ=1)	RMS AC+DC	1000V 500A	1000V, 500A, 500kW, 60Hz, 1		498.50 kW ~ 501.50 kW	( 500.06 kW )	( 500.08 kW )	( 500.08 kW )
			1000V, 50A, 50kW, 60Hz, 1		49.850 kW ~ 50.150 kW	( 50.000 kW )	( 50.003 kW )	( 50.003 kW )
			1000V, 10A, 10kW, 60Hz, 1		9.930 kW ~ 10.070 kW	( 9.999 kW )	( 10.000 kW )	( 9.999 kW )
			1000V, 2.5A, 2.5kW, 60Hz, 1		2.445 kW ~ 2.555 kW	( 2.501 kW )	( 2.500 kW )	( 2.502 kW )
			1000V(60Hz), 0A, 0kW, -, -		0.000 kW ~ 0.000 kW	( 0.000 kW )	( 0.000 kW )	( 0.000 kW )
			400V, 50A, 20kW, 60Hz, 1		19.910 kW ~ 20.090 kW	( 20.000 kW )	( 20.000 kW )	( 20.000 kW )
			200V, 50A, 10kW, 60Hz, 1		9.930 kW ~ 10.070 kW	( 9.998 kW )	( 9.999 kW )	( 10.000 kW )
			100V, 50A, 5kW, 60Hz, 1		4.940 kW ~ 5.060 kW	( 5.000 kW )	( 4.999 kW )	( 5.000 kW )
			10V, 50A, 0.5kW, 60Hz, 1		0.449 kW ~ 0.551 kW	( 0.500 kW )	( 0.499 kW )	( 0.501 kW )
1000V 5A	1000V, 5A, 5kW, 60Hz, 1		4.9850 kW ~ 5.0150 kW	( 5.0006 kW )	( 5.0001 kW )	( 5.0002 kW )		
	力率 0 (cos φ=0)	1000V 50A	1000V, 50A, 0kW(LEAD 0.0), 60Hz, 0		-0.300 kW ~ 0.300 kW	( -0.053 kW )	( -0.049 kW )	( -0.049 kW )
		1000V, 50A, 0kW(LAG 0.0), 60Hz, 0		-0.300 kW ~ 0.300 kW	( -0.011 kW )	( -0.014 kW )	( -0.014 kW )	

**4. 基本波無効電力精度<Fundamental Wave Reactive Power Accuracy>**

項目 <Item>	レクティファイア <Rectif>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>	* 校正値<Calibration Value>		
			<V,A,var,Hz,PF>			CH1	CH2	CH3
無効率 1 (sin φ=1)	RMS AC+DC	1000V 50A	1000V, 50A, 50kvar, 60Hz, 0		49.800 kvar ~ 50.200 kvar	( 50.004 kvar )	( 50.007 kvar )	( 50.008 kvar )
			1000V, 10A, 10kvar, 60Hz, 0		9.920 kvar ~ 10.080 kvar	( 10.002 kvar )	( 10.004 kvar )	( 10.002 kvar )
			1000V, 2.5A, 2.5kvar, 60Hz, 0		2.443 kvar ~ 2.557 kvar	( 2.503 kvar )	( 2.503 kvar )	( 2.505 kvar )
			1000V(60Hz), 0A, 0kvar, -, -		0.000 kvar ~ 0.000 kvar	( 0.000 kvar )	( 0.000 kvar )	( 0.000 kvar )
			400V, 50A, 20kvar, 60Hz, 0		19.890 kvar ~ 20.110 kvar	( 19.999 kvar )	( 20.000 kvar )	( 20.000 kvar )
			200V, 50A, 10kvar, 60Hz, 0		9.920 kvar ~ 10.080 kvar	( 9.999 kvar )	( 9.999 kvar )	( 10.001 kvar )
			100V, 50A, 5kvar, 60Hz, 0		4.935 kvar ~ 5.065 kvar	( 5.000 kvar )	( 5.000 kvar )	( 5.000 kvar )
10V, 50A, 0.5kvar, 60Hz, 0		0.449 kvar ~ 0.551 kvar	( 0.500 kvar )	( 0.499 kvar )	( 0.501 kvar )			
無効率 0 (sin φ=0)	1000V 50A	1000V, 50A, 0kvar, 60Hz, 1		-0.300 kvar ~ 0.300 kvar	( 0.000 kvar )	( 0.000 kvar )	( 0.000 kvar )	

**5. ピーク測定精度<Waveform Peak Value Accuracy>**

項目 <Item>	レクティファイア <Rectif>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>	* 校正値<Calibration Value>			
			<Volt/Curr>	<Freq>		CH1	CH2	CH3	CH4
-1.電圧 <Voltage>	RMS AC+DC	1000V	600V	60Hz	818.53 V ~ 878.53 V	( 848.40 V )	( 848.60 V )	( 848.40 V )	( 848.60 V )
			600V	60Hz	-878.53 V ~ -818.53 V	( -848.90 V )	( -849.10 V )	( -849.10 V )	( -849.10 V )
-2.電流 <Current>	RMS AC+DC	50A	50A	60Hz	67.176 A ~ 74.246 A	( 70.730 A )	( 70.770 A )	( 70.750 A )	( 70.750 A )
			50A	60Hz	-74.246 A ~ -67.176 A	( -70.740 A )	( -70.740 A )	( -70.740 A )	( -70.730 A )

**6. 周波数特性<Frequency Characteristics>**

項目 <Item>	レクティファイア <Rectif>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>	* 校正値<Calibration Value>			
			<V,A,W,PF>	<Freq>		CH1	CH2	CH3	CH4
-1.電圧 <Voltage>	RMS AC+DC	1000V	1000V	45Hz	998.0 V ~ 1002.0 V	( 1000.1 V )	( 1000.2 V )	( 1000.1 V )	( 1000.2 V )
				1kHz	968.0 V ~ 1032.0 V	( 1000.0 V )	( 1000.0 V )	( 1000.0 V )	( 1000.0 V )
				10kHz	898.0 V ~ 1102.0 V	( 996.8 V )	( 994.1 V )	( 993.7 V )	( 991.2 V )
-2.電流 <Current>	RMS AC+DC	50A	50A	45Hz	49.900 A ~ 50.100 A	( 49.994 A )	( 49.994 A )	( 49.995 A )	( 49.994 A )
				1kHz	48.400 A ~ 51.600 A	( 50.009 A )	( 50.009 A )	( 50.010 A )	( 50.008 A )
				10kHz	44.900 A ~ 55.100 A	( 50.062 A )	( 50.058 A )	( 50.037 A )	( 50.049 A )
-3.電力 <Power>	RMS AC+DC	1000V 50A	1000V, 50A,	45Hz	49.850 kW ~ 50.150 kW	( 50.001 kW )	( 50.004 kW )	( 50.004 kW )	
			50kW, 1	1kHz	48.400 kW ~ 51.600 kW	( 50.008 kW )	( 50.008 kW )	( 50.008 kW )	
				10kHz	44.900 kW ~ 55.100 kW	( 49.873 kW )	( 49.711 kW )	( 49.677 kW )	

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**7. 高調波<Harmonic Wave>**

項目 <Item>	レクティファイア <Rectif>	レンジ <Range>	入力<Input>/次数		許容範囲 <Tolerance>	* 校正値<Calibration Value>			
			<Volt/Curr>	<Harmonic>		CH1	CH2	CH3	CH4
-1.電圧 <Voltage>	RMS AC+DC	1000V	0V	0	0.00 V ~ 0.00 V	( 0.00 V )	( 0.00 V )	( 0.00 V )	( 0.00 V )
*1			5V	20	4.50 V ~ 5.50 V	( 4.99 V )	( 4.97 V )	( 5.00 V )	( 5.00 V )
			5V	30	4.50 V ~ 5.50 V	( 4.99 V )	( 4.97 V )	( 5.00 V )	( 4.99 V )
			5V	40	4.50 V ~ 5.50 V	( 4.98 V )	( 4.96 V )	( 5.00 V )	( 4.99 V )
			5V	50	4.50 V ~ 5.50 V	( 4.97 V )	( 4.95 V )	( 4.99 V )	( 4.98 V )
-2.電流 <Current>	RMS AC+DC	50A	0A	0	0.000 A ~ 0.000 A	( 0.000 A )	( 0.000 A )	( 0.000 A )	( 0.000 A )
*2			50A	20	49.650 A ~ 50.350 A	( 49.986 A )	( 49.986 A )	( 49.987 A )	( 49.986 A )
			50A	30	49.350 A ~ 50.650 A	( 49.979 A )	( 49.979 A )	( 49.980 A )	( 49.979 A )
			50A	40	48.850 A ~ 51.150 A	( 49.914 A )	( 49.914 A )	( 49.915 A )	( 49.915 A )
			50A	50	48.350 A ~ 51.650 A	( 49.777 A )	( 49.777 A )	( 49.777 A )	( 49.777 A )

**8. 周波数測定<Frequency Measurement>**

項目 <Item>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>	* 校正値<Calibration Value>			
		<Volt>	<Freq>		CH1	CH2	CH3	CH4
Freq	1000V	1000V	50Hz	49.980 Hz ~ 50.020 Hz	( 50.000 Hz )	-	-	-
		1000V	60Hz	59.980 Hz ~ 60.020 Hz	( 60.000 Hz )	-	-	-
		10V	60Hz	59.980 Hz ~ 60.020 Hz	( 60.000 Hz )	-	-	-
		1000V	60Hz	59.800 Hz ~ 60.200 Hz	( 60.000 Hz )	-	-	-
Freq_wav *3		50V	60Hz	59.800 Hz ~ 60.200 Hz	( 60.000 Hz )	-	-	-

- \*1. 電圧基本波<Voltage Fundamental Wave> : 60Hz、公称入力電圧<Declared input voltage> : 100V
- \*2. 電流基本波<Current Fundamental Wave> : 60Hz
- \*3. 1波形ごとの周波数<Frequency Per Wavelength>