

SAMPLE

検査成績表 <TEST REPORT>

品名<Model Name> (2.5MS/s入力ユニット<2.5MS/s INPUT UNIT>)
 形名<Model Number> (U7001)
 製造番号<Serial No.> (No. 211143253)
 検査年月日<Test Date> (2021-12-01)
 (<YYYY-MM-DD>)
 検査条件<Test Conditions> (23.0 °C 50 % RH)

本体情報<Main Unit Information>

形名<Model Number> (PW8001-12)
 製造番号<Serial No.> (No. 211143252)
 CH割当<Assign CH> (CH5)

1. 測定精度<Measurement Accuracy>

項目 <Item>	レクティ ファイア <Rect>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>	校正値 *1 <Calibration Value>
			<Volt>	<Freq>		
-1. 電圧<Voltage>						
CH5						
RMS (AC+DC)		1500V	1000V	50Hz	0.99905 kV ~ 1.00095 kV	(1.00001 kV)
		600V	600V	50Hz	599.580 V ~ 600.420 V	(600.003 V)
		300V	300V	50Hz	299.790 V ~ 300.210 V	(299.999 V)
		150V	150V	50Hz	149.895 V ~ 150.105 V	(150.001 V)
			15V	50Hz	14.922 V ~ 15.078 V	(15.000 V)
			1.5V	50Hz	1.425 V ~ 1.575 V	(1.502 V)
		60V	60V	50Hz	59.9580 V ~ 60.0420 V	(60.0001 V)
		30V	30V	50Hz	29.9790 V ~ 30.0210 V	(29.9996 V)
		15V	15V	50Hz	14.9895 V ~ 15.0105 V	(15.0000 V)
		6V	6V	50Hz	5.99460 V ~ 6.00540 V	(5.99997 V)
			0.06V	50Hz	0.05579 V ~ 0.06421 V	(0.06029 V)
			DC	1500V	1000V	0.99905 kV ~ 1.00095 kV
				-1000V	-1.00095 kV ~ -0.99905 kV	(-0.99999 kV)
			600V	600V	599.580 V ~ 600.420 V	(600.005 V)
		300V	300V	299.790 V ~ 300.210 V	(299.990 V)	
		150V	150V	149.895 V ~ 150.105 V	(149.998 V)	
			-150V	-150.105 V ~ -149.895 V	(-149.999 V)	
		60V	60V	59.9580 V ~ 60.0420 V	(60.0009 V)	
		30V	30V	29.9790 V ~ 30.0210 V	(29.9996 V)	
		15V	15V	14.9895 V ~ 15.0105 V	(14.9997 V)	
		6V	6V	5.99460 V ~ 6.00540 V	(6.00000 V)	
			0.06V	0.05579 V ~ 0.06421 V	(0.06007 V)	
			-6V	-6.00540 V ~ -5.99460 V	(-6.00002 V)	

備考<Note>

・特に設定の明記のない場合、以下の設定で検査しています。
 結線: 1P2W, VT比: 1, CT比: 1, ゼロクロスフィルタ: 下限10Hz上限1MHz(ただし、10Hz入力時は下限1Hzとする)
 データ更新レート50ms, LPF: OFF, アベレージ: OFF
 電流センサは、Probe1: 50A ACDCセンサ、Probe2: 100mV/A ACDCセンサ
 <Inspection settings are as follows except noted.
 Wiring: 1P2W, VT Ratio: 1, CT Ratio: 1, Filter(Zero Cross): Low 10Hz(1Hz when 10Hz input) Upper 1MHz
 Data Update: 50ms, LPF: OFF, Average: OFF
 Current Sensor settings are "50A ACDC Sensor" to Probe1, and "100mV/A ACDC Sensor" to Probe2 >
 *1. FAIL判定箇所は、グレー表示としています。<FAIL decision points are highlighted in gray.>

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

SAMPLE

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<TEST REPORT>

製造番号<Serial No.> (No. 211143253)
 検査年月日<Test Date> (2021-12-01)
 <YYYY-MM-DD>

項目 <Item>	レクティファイア <Rect>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>		校正値 *1 <Calibration Value>	
			<Curr>	<Freq>				
-2. 電流1(Probe1) 同期ソース:l < Current 1(Probe1) SyncSource:l >							CH5	
RMS (AC+DC)		50A	50A	50Hz	49.9650 A	~ 50.0350 A	(50.0000 A)	
		20A	20A	50Hz	19.9860 A	~ 20.0140 A	(20.0002 A)	
		10A	10A	50Hz	9.9930 A	~ 10.0070 A	(10.0000 A)	
			1A	50Hz	0.9948 A	~ 1.0052 A	(1.0001 A)	
			0.1A	50Hz	0.0950 A	~ 0.1050 A	(0.0999 A)	
			5A	50Hz	4.99650 A	~ 5.00350 A	(4.99997 A)	
	DC		2A	2A	50Hz	1.99860 A	~ 2.00140 A	(1.99996 A)
			1A	1A	50Hz	0.99910 A	~ 1.00090 A	(0.99995 A)
			50A	50A		49.9650 A	~ 50.0350 A	(49.9994 A)
				-50A		-50.0350 A	~ -49.9650 A	(-49.9982 A)
			20A	20A		19.9860 A	~ 20.0140 A	(20.0004 A)
			10A	10A		9.9930 A	~ 10.0070 A	(10.0002 A)
		-10A			-10.0070 A	~ -9.9930 A	(-9.9996 A)	
		5A	5A		4.99650 A	~ 5.00350 A	(4.99992 A)	
		2A	2A		1.99860 A	~ 2.00140 A	(2.00007 A)	
		1A	1A		0.99910 A	~ 1.00090 A	(1.00017 A)	
			0.01A		0.00930 A	~ 0.01070 A	(0.01018 A)	
			-1A		-1.00090 A	~ -0.99910 A	(-0.99983 A)	
-3. 電流2(Probe2) 同期ソース:l < Current 2(Probe2) SyncSource:l >								
RMS (AC+DC)		50A	50A	50Hz	49.8400 A	~ 50.1600 A	(50.0000 A)	
		10A	10A	50Hz	9.9680 A	~ 10.0320 A	(10.0000 A)	
			5A	50Hz	4.9715 A	~ 5.0285 A	(4.9998 A)	
			0.1A	50Hz	0.0750 A	~ 0.1250 A	(0.1001 A)	
DC	1A	1A	1A		0.99660 A	~ 1.00340 A	(1.00005 A)	
			-1A		-1.00340 A	~ -0.99660 A	(-0.99984 A)	

SAMPLE

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製造番号<Serial No.> (No. 211143253)
 検査年月日<Test Date> (2021-12-01)
 <YYYY-MM-DD>

項目 <Item>	レクティ ファイア <Rect>	レンジ <Range>	入力<Input> <Volt/Curr/Pow/Freq/PF>	許容範囲 <Tolerance>	校正値 *1 <Calibration Value>
-4. 有効電力(Probe1) 力率 1<Power(Probe 1) PF=1>					CH5
RMS (AC+DC)		150V/10A	150V,10A,1.5kW, 50Hz,PF=1	1.49895 kW ~ 1.50105 kW	(1.50001 kW)
			150V,5A,0.75kW, 50Hz,PF=1	0.74910 kW ~ 0.75090 kW	(0.75004 kW)
			150V,1A,0.15kW, 50Hz,PF=1	0.14922 kW ~ 0.15078 kW	(0.15000 kW)
		150V/50A	150V,50A,7.5kW, 50Hz,PF=1	7.49475 kW ~ 7.50525 kW	(7.50000 kW)
			150V,0.5A,0.075kW, 50Hz,PF=1	0.07124 kW ~ 0.07876 kW	(0.07506 kW)
		1500V/50A	600V,50A,30kW, 50Hz,PF=1	29.9565 kW ~ 30.0435 kW	(30.0002 kW)
		1500V/2A	600V,2A,1.2kW, 50Hz,PF=1	1.19826 kW ~ 1.20174 kW	(1.20000 kW)
		6V/50A	6V,50A,300W, 50Hz,PF=1	299.730 W ~ 300.270 W	(300.000 W)
		6V/1A	6V,1A,6W, 50Hz,PF=1	5.99340 W ~ 6.00660 W	(5.99988 W)
		DC	15V/1A	15V,1A,15W	14.9865 W ~ 15.0135 W
-15V,-1A,15W	14.9865 W ~ 15.0135 W			(14.9971 W)	
15V,0.01A,0.15W	0.1395 W ~ 0.1605 W			(0.1528 W)	
-5. 有効電力(Probe2) 力率 1<Power(Probe2) PF=1>					
RMS (AC+DC)		150V/50A	150V,50A,7.5kW, 50Hz,PF=1	7.47600 kW ~ 7.52400 kW	(7.50000 kW)
			150V,0.5A,0.075kW, 50Hz,PF=1	0.05620 kW ~ 0.09380 kW	(0.07509 kW)

SAMPLE

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 検査年月日<Test Date> (2021-12-01)
 <YYYY-MM-DD>

2. ピーク値測定<Peak Measurement>

項目 <Item>	レクティ ファイア <Rect>	レンジ <Range>	入力<Input>		許容範囲		校正値 *1 <Calibration Value>
			<Volt/Curr>	<Freq>	<Tolerance>		
-1. 電圧<Voltage>							
CH5							
Upeak+		6V	6V	-	5.8146 V	~ 6.1854 V	(6.0270 V)
Upeak-			-6V	-	-6.1854 V	~ -5.8146 V	(-6.0286 V)
-2. 電流<Current>							
Ipeak+		50A	50A	-	48.465 A	~ 51.535 A	(50.027 A)
Ipeak-			-50A	-	-51.535 A	~ -48.465 A	(-50.027 A)

3. 周波数特性<Frequency Characteristic>

項目 <Item>	レクティ ファイア <Rect>	レンジ <Range>	入力<Input>		許容範囲		校正値 *1 <Calibration Value>	
			<Volt/Curr/ Pow/PF>	<Freq>	<Tolerance>			
-1. 電圧<Voltage>								
CH5								
RMS (AC+DC)		1500V	600V	100kHz	0.59250 kV	~ 0.60750 kV	(0.59912 kV)	
		600V	600V	100kHz	593.400 V	~ 606.600 V	(599.239 V)	
		300V	300V	100kHz	296.700 V	~ 303.300 V	(299.612 V)	
		150V	150V	10Hz	149.700 V	~ 150.300 V	(150.006 V)	
			150V	60Hz	149.895 V	~ 150.105 V	(150.001 V)	
			150V	1kHz	149.880 V	~ 150.120 V	(149.999 V)	
			150V	10kHz	149.700 V	~ 150.300 V	(149.984 V)	
			150V	50kHz	149.625 V	~ 150.375 V	(149.926 V)	
			150V	100kHz	148.350 V	~ 151.650 V	(149.886 V)	
			60V	40V	500kHz	35.700 V	~ 44.300 V	(39.572 V)
			60V	60V	100kHz	59.3400 V	~ 60.6600 V	(59.9594 V)
			30V	30V	100kHz	29.6700 V	~ 30.3300 V	(29.9758 V)
			15V	15V	100kHz	14.8350 V	~ 15.1650 V	(14.9889 V)
			6V	6V	10Hz	5.98680 V	~ 6.01320 V	(6.00039 V)
				6V	60Hz	5.99460 V	~ 6.00540 V	(5.99998 V)
				6V	1kHz	5.99400 V	~ 6.00600 V	(6.00008 V)
				6V	10kHz	5.98680 V	~ 6.01320 V	(5.99935 V)
		6V		50kHz	5.98380 V	~ 6.01620 V	(5.99705 V)	
		6V		100kHz	5.93280 V	~ 6.06720 V	(5.99585 V)	
		6V		500kHz	5.38680 V	~ 6.61320 V	(5.95008 V)	
MEAN (AC+DC)		150V		150V	50Hz	149.895 V	~ 150.105 V	(149.996 V)
			150V	1kHz	149.880 V	~ 150.120 V	(149.995 V)	
RMS (AC+DC)		6V	6V	50kHz	5.98080 V	~ 6.01920 V	(5.99564 V)	
			6V	100kHz	5.89980 V	~ 6.10020 V *2	(5.98489 V)	
LPF 500kHz			6V	500kHz	3.30000 V	~ 5.10000 V *2	(3.89062 V)	

*2 許容範囲は社内規格です。<This tolerance is the internal standard.>

-2. 電流1(Probe1)<Current 1(Probe1)>

RMS (AC+DC)	50A	50A	100kHz	49.4500 A	~ 50.5500 A	(49.9918 A)
	10A	10A	10Hz	9.9800 A	~ 10.0200 A	(10.0004 A)
		10A	60Hz	9.9930 A	~ 10.0070 A	(10.0000 A)
		10A	1kHz	9.9920 A	~ 10.0080 A	(10.0000 A)
		10A	10kHz	9.9800 A	~ 10.0200 A	(9.9991 A)
		10A	50kHz	9.9750 A	~ 10.0250 A	(9.9967 A)
		10A	100kHz	9.8900 A	~ 10.1100 A	(9.9979 A)
		10A	500kHz	8.9800 A	~ 11.0200 A	(10.0004 A)

SAMPLE

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製造番号<Serial No.> (No. 211143253)
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 <YYYY-MM-DD>

項目 <Item>	レクティ ファイア <Rect>	レンジ <Range>	入力<Input>		許容範囲		校正値 *1			
			<Volt/Curr/ Pow/PF>	<Freq>	<Tolerance>		<Calibration Value>			
CH5										
RMS (AC+DC)		5A	5A	100kHz	4.94500 A	~	5.05500 A	(4.99792 A)		
			1A	10Hz	0.99780 A	~	1.00220 A	(0.99995 A)		
		10A	1A	60Hz	0.99910 A	~	1.00090 A	(1.00000 A)		
			1A	1kHz	0.99900 A	~	1.00100 A	(0.99996 A)		
			1A	10kHz	0.99780 A	~	1.00220 A	(0.99992 A)		
			1A	50kHz	0.99730 A	~	1.00270 A	(0.99961 A)		
			1A	100kHz	0.98880 A	~	1.01120 A	(0.99964 A)		
			1A	500kHz	0.89780 A	~	1.10220 A	(0.99674 A)		
			MEAN (AC+DC)	10A	10A	50Hz	9.9930 A	~	10.0070 A	(9.9994 A)
			RMS (AC+DC)	10A	10A	1kHz	9.9920 A	~	10.0080 A	(9.9993 A)
LPF 500kHz	10A	10A	50kHz	9.9700 A	~	10.0300 A	(9.9937 A)			
		10A	100kHz	9.8350 A	~	10.1650 A *2	(9.9774 A)			
		10A	500kHz	5.5000 A	~	8.5000 A *2	(6.5432 A)			

*2 許容範囲は社内規格です。<This tolerance is the internal standard.>

-3. 電流2(Probe2)<Current 2(Probe2)>

RMS (AC+DC)	10A	10A	50Hz	9.9680 A	~	10.0320 A	(10.0000 A)
		10A	10kHz	9.9550 A	~	10.0450 A	(9.9989 A)
		10A	50kHz	9.9500 A	~	10.0500 A	(9.9956 A)
		10A	100kHz	9.8650 A	~	10.1350 A	(9.9952 A)
		10A	500kHz	8.9550 A	~	11.0450 A	(9.9654 A)

-4. 有効電力(Probe1)<Power (Probe1)>

RMS (AC+DC)	150V/10A	150V, 10A, 1.5kW, PF=1	10Hz	1.49550 kW	~	1.50450 kW	(1.50013 kW)	
		150V, 10A, 1.5kW, PF=1	60Hz	1.49895 kW	~	1.50105 kW	(1.50000 kW)	
		150V, 10A, 1.5kW, PF=1	10kHz	1.49625 kW	~	1.50375 kW	(1.49969 kW)	
		150V, 10A, 1.5kW, PF=1	50kHz	1.49250 kW	~	1.50750 kW	(1.49876 kW)	
		150V, 10A, 1.5kW, PF=1	100kHz	1.48200 kW	~	1.51800 kW	(1.49854 kW)	
		40V, 10A, 400W, PF=1	500kHz	0.34550 kW	~	0.45450 kW	(0.39579 kW)	
		6V/50A	6V, 50A, 300W, PF=1	10Hz	299.040 W	~	300.960 W	(300.029 W)
			6V, 50A, 300W, PF=1	60Hz	299.730 W	~	300.270 W	(300.003 W)
	6V, 50A, 300W, PF=1		10kHz	299.190 W	~	300.810 W	(299.939 W)	
	6V, 50A, 300W, PF=1		50kHz	298.440 W	~	301.560 W	(299.757 W)	
	6V, 50A, 300W, PF=1		100kHz	296.340 W	~	303.660 W	(299.745 W)	
	6V, 50A, 300W, PF=1		500kHz	261.540 W	~	338.460 W	(297.903 W)	

SAMPLE

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 <YYYY-MM-DD>

項目 <Item>	レクティファイア <Rect>	レンジ <Range>	入力<Input> <Volt/Curr/ Pow/PF>		許容範囲 <Tolerance>	校正値 *1 <Calibration Value>
CH5						
RMS (AC+DC)		6V/50A	6V, 50A, 300W, PF=1	50kHz	298.290 W ~ 301.710 W	(299.597 W)
LPF 500kHz			6V, 50A, 300W, PF=1	100kHz	294.690 W ~ 305.310 W *2	(298.585 W)
			6V, 50A, 300W, PF=1	500kHz	30.000 W ~ 210.000 W *2	(127.456 W)
*2 許容範囲は社内規格です。<This tolerance is the internal standard.>						
-5. 有効電力(Probe2)<Power (Probe2)>						
RMS (AC+DC)		150V/10A	150V, 10A, 1.5kW, PF=1	50Hz	1.49520 kW ~ 1.50480 kW	(1.50001 kW)
		150V/10A	150V, 10A, 1.5kW, PF=1	10kHz	1.49250 kW ~ 1.50750 kW	(1.49967 kW)
		150V/10A	150V, 10A, 1.5kW, PF=1	100kHz	1.47825 kW ~ 1.52175 kW	(1.49813 kW)
		150V/10A	40V, 10A, 400W, PF=1	500kHz	0.34230 kW ~ 0.45770 kW	(0.39435 kW)
-6. 電圧電流位相差(Probe1) 力率 0(電流90°LEAD) < Phase(Probe1) PF=0 (Current 90°Lead) >						
		150V/10A	150V, 10A, 0W, PF=0	10Hz	89.950 ° ~ 90.050 °	(89.997 °) *3
			150V, 10A, 0W, PF=0	50Hz	89.950 ° ~ 90.050 °	(90.000 °) *3
			150V, 10A, 0W, PF=0	60Hz	89.950 ° ~ 90.050 °	(90.005 °) *3
			150V, 10A, 0W, PF=0	10kHz	89.800 ° ~ 90.200 °	(90.007 °)
			150V, 10A, 0W, PF=0	100kHz	88.000 ° ~ 92.000 °	(90.018 °)
			40V, 10A, 0W, PF=0	500kHz	80.000 ° ~ 100.000 °	(90.106 °)
		6V/50A	6V, 50A, 0W, PF=0	10Hz	89.950 ° ~ 90.050 °	(89.995 °) *3
			6V, 50A, 0W, PF=0	50Hz	89.950 ° ~ 90.050 °	(90.013 °) *3
			6V, 50A, 0W, PF=0	60Hz	89.950 ° ~ 90.050 °	(90.007 °) *3
			6V, 50A, 0W, PF=0	10kHz	89.800 ° ~ 90.200 °	(90.004 °)
			6V, 50A, 0W, PF=0	100kHz	88.000 ° ~ 92.000 °	(90.017 °)
			6V, 50A, 0W, PF=0	500kHz	80.000 ° ~ 100.000 °	(90.077 °)
		6V/5A LPF 500kHz	6V, 5A, 0W, PF=0	10kHz	89.800 ° ~ 90.200 °	(90.001 °)
-7. 電圧電流位相差(Probe2) 力率 0(電流90°LEAD) < Phase(Probe2) PF=0 (Current 90°Lead) >						
		150V/10A	150V, 10A, 0W, PF=0	50Hz	89.950 ° ~ 90.050 °	(89.991 °) *3
			150V, 10A, 0W, PF=0	100kHz	87.800 ° ~ 92.200 °	(89.982 °)
			40V, 10A, 0W, PF=0	500kHz	79.800 ° ~ 100.200 °	(89.879 °)

*3 アベレージ: 移動平均16回<Average: Moving Average 16times>

SAMPLE

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4. 周波数測定<Frequency Measurement>

項目 <Item>	レクティ ファイア <Rect>	レンジ <Range>	入力<Input>		許容範囲 <Tolerance>		校正値 *1 <Calibration Value>
			<Volt>	<Freq>			
-1. 周波数<Frequency>							
		15V	15V	50Hz	49.9950 Hz	~ 50.0050 Hz	(49.9994 Hz)
			15V	100kHz	99.950 kHz	~ 100.050 kHz	(99.999 kHz)
			15V	1MHz	0.99950 MHz	~ 1.00050 MHz	(0.99999 MHz)