

SAMPLE

検査成績表
<TEST REPORT>

品名<Model Name> (15MS/s入力ユニット<15MS/s INPUT UNIT>)
 形名<Model Number> (U7005)
 製造番号<Serial No.> (No. 211143257)
 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> (CH1)

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>								
CH1								
RMS (AC+DC)		1500V	1000V	50Hz	0.99960 kV ~ 1.00040 kV	(1.00001 kV)		
		600V	600V	50Hz	599.820 V ~ 600.180 V	(600.004 V)		
		300V	300V	50Hz	299.910 V ~ 300.090 V	(299.999 V)		
		150V	150V	50Hz	149.955 V ~ 150.045 V	(150.001 V)		
			15V	50Hz	14.969 V ~ 15.031 V	(15.000 V)		
			1.5V	50Hz	1.470 V ~ 1.530 V	(1.501 V)		
		60V	60V	50Hz	59.9820 V ~ 60.0180 V	(60.0001 V)		
		30V	30V	50Hz	29.9910 V ~ 30.0090 V	(29.9998 V)		
		15V	15V	50Hz	14.9955 V ~ 15.0045 V	(15.0001 V)		
		6V	6V	50Hz	5.99700 V ~ 6.00300 V	(6.00003 V)		
			0.06V	50Hz	0.05760 V ~ 0.06240 V	(0.06074 V)		
		DC		1500V	1000V		0.99935 kV ~ 1.00065 kV	(1.00000 kV)
					-1000V		-1.00065 kV ~ -0.99935 kV	(-0.99999 kV)
				600V	600V		599.700 V ~ 600.300 V	(600.017 V)
300V	300V				299.850 V ~ 300.150 V	(300.001 V)		
150V	150V				149.925 V ~ 150.075 V	(150.003 V)		
	-150V				-150.075 V ~ -149.925 V	(-150.003 V)		
60V	60V				59.9700 V ~ 60.0300 V	(60.0029 V)		
30V	30V				29.9850 V ~ 30.0150 V	(30.0003 V)		
15V	15V		14.9925 V ~ 15.0075 V	(15.0004 V)				
6V	6V		5.99580 V ~ 6.00420 V	(6.00034 V)				
	0.06V		0.05699 V ~ 0.06301 V	(0.06008 V)				
		-6V		-6.00420 V ~ -5.99580 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2MHz(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

<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 2MHz
 Data Update: 50ms, LPF: OFF, Average: OFF
 Current Sensor settings are "50A ACDC Sensor" to Probe1>

*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>

(**PASS**)

検査者<Inspected By>

()

承認者<Approved By>

()

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項目 <Item>	レクティ ファイア <Rect>	レンジ <Range>	入力<Input> <Curr> <Freq>		許容範囲 <Tolerance>			校正値 *1 <Calibration Value>
-2. 電流1(Probe1) 同期ソース: I <Current 1(Probe1) SyncSource: I >								
					CH1			
RMS		50A	50A	50Hz	49.9850 A	~	50.0150 A	(49.9999 A)
(AC+DC)		20A	20A	50Hz	19.9940 A	~	20.0060 A	(20.0002 A)
		10A	10A	50Hz	9.9970 A	~	10.0030 A	(10.0000 A)
			1A	50Hz	0.9979 A	~	1.0021 A	(1.0001 A)
			0.1A	50Hz	0.0980 A	~	0.1020 A	(0.1003 A)
		5A	5A	50Hz	4.99750 A	~	5.00250 A	(4.99996 A)
		2A	2A	50Hz	1.99900 A	~	2.00100 A	(1.99993 A)
		1A	1A	50Hz	0.99950 A	~	1.00050 A	(0.99995 A)
DC		50A	50A		49.9750 A	~	50.0250 A	(50.0002 A)
			-50A		-50.0250 A	~	-49.9750 A	(-49.9996 A)
		20A	20A		19.9900 A	~	20.0100 A	(19.9999 A)
		10A	10A		9.9950 A	~	10.0050 A	(10.0001 A)
			-10A		-10.0050 A	~	-9.9950 A	(-10.0000 A)
		5A	5A		4.99650 A	~	5.00350 A	(4.99991 A)
		2A	2A		1.99860 A	~	2.00140 A	(2.00004 A)
		1A	1A		0.99930 A	~	1.00070 A	(1.00013 A)
			0.01A		0.00950 A	~	0.01050 A	(0.01016 A)
			-1A		-1.00070 A	~	-0.99930 A	(-0.99984 A)

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/Freq/PF>	許容範囲 <Tolerance>	校正値 *1 <Calibration Value>
-3. 有効電力(Probe1) 力率 1<Power(Probe 1) PF=1>					CH1
RMS (AC+DC)		150V/10A	150V,10A,1.5kW, 50Hz,PF=1	1.49955 kW ~ 1.50045 kW	(1.50001 kW)
			150V,5A,0.75kW, 50Hz,PF=1	0.74963 kW ~ 0.75037 kW	(0.75005 kW)
			150V,1A,0.15kW, 50Hz,PF=1	0.14969 kW ~ 0.15031 kW	(0.14999 kW)
		150V/50A	150V,50A,7.5kW, 50Hz,PF=1	7.49775 kW ~ 7.50225 kW	(7.50000 kW)
			150V,0.5A,0.075kW, 50Hz,PF=1	0.07350 kW ~ 0.07650 kW	(0.07494 kW)
		1500V/50A	600V,50A,30kW, 50Hz,PF=1	29.9820 kW ~ 30.0180 kW	(30.0002 kW)
		1500V/2A	600V,2A,1.2kW, 50Hz,PF=1	1.19868 kW ~ 1.20132 kW	(1.19998 kW)
		6V/50A	6V,50A,300W, 50Hz,PF=1	299.850 W ~ 300.150 W	(300.001 W)
		6V/1A	6V,1A,6W, 50Hz,PF=1	5.99580 W ~ 6.00420 W	(5.99954 W)
		DC	15V/1A	15V,1A,15W	14.9895 W ~ 15.0105 W
-15V,-1A,15W	14.9895 W ~ 15.0105 W			(14.9976 W)	
15V,0.01A,0.15W	0.1425 W ~ 0.1575 W			(0.1519 W)	

SAMPLE

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製造番号<Serial No.> () No. 211143257 ()
 検査年月日<Test Date> () 2021-12-01 ()
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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 <Tolerance>		校正値 *1 <Calibration Value>
			<Volt/Curr>	<Freq>			
-1. 電圧<Voltage>							
CH1							
Upeak+		6V	6V	-	5.8158 V	~ 6.1842 V	(6.0453 V)
Upeak-			-6V	-	-6.1842 V	~ -5.8158 V	(-6.0444 V)
-2. 電流<Current>							
Ipeak+		50A	50A	-	48.475 A	~ 51.525 A	(50.102 A)
Ipeak-			-50A	-	-51.525 A	~ -48.475 A	(-50.103 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 <Tolerance>		校正値 *1 <Calibration Value>
			<Volt/Curr/ Pow/PF>	<Freq>			
-1. 電圧<Voltage>							
CH1							
RMS (AC+DC)		1500V	600V	100kHz	0.59250 kV	~ 0.60750 kV	(0.59960 kV)
		600V	600V	100kHz	593.400 V	~ 606.600 V	(599.617 V)
		300V	300V	100kHz	296.700 V	~ 303.300 V	(299.884 V)
		150V	150V	10Hz	149.700 V	~ 150.300 V	(150.007 V)
		150V	150V	60Hz	149.955 V	~ 150.045 V	(150.001 V)
		150V	150V	1kHz	149.910 V	~ 150.090 V	(150.002 V)
		150V	150V	10kHz	149.850 V	~ 150.150 V	(150.014 V)
		150V	150V	50kHz	149.775 V	~ 150.225 V	(150.061 V)
		150V	150V	100kHz	148.350 V	~ 151.650 V	(150.000 V)
		40V	500kHz	37.700 V	~ 42.300 V	(39.624 V)	
		20V	1MHz	17.550 V	~ 22.450 V	(19.747 V)	
		60V	60V	100kHz	59.3400 V	~ 60.6600 V	(60.0005 V)
		30V	30V	100kHz	29.6700 V	~ 30.3300 V	(30.0026 V)
		15V	15V	100kHz	14.8350 V	~ 15.1650 V	(15.0001 V)
		6V	6V	10Hz	5.98680 V	~ 6.01320 V	(6.00038 V)
		6V	6V	60Hz	5.99700 V	~ 6.00300 V	(6.00000 V)
6V	6V	1kHz	5.99520 V	~ 6.00480 V	(6.00012 V)		
6V	6V	10kHz	5.99280 V	~ 6.00720 V	(6.00034 V)		
6V	6V	50kHz	5.98980 V	~ 6.01020 V	(6.00148 V)		
6V	6V	100kHz	5.93280 V	~ 6.06720 V	(6.00016 V)		
6V	6V	500kHz	5.68680 V	~ 6.31320 V	(5.96111 V)		
6V	6V	1MHz	5.38080 V	~ 6.61920 V	(5.92473 V)		
MEAN (AC+DC)	150V	150V	50Hz	149.955 V	~ 150.045 V	(149.997 V)	
		150V	1kHz	149.910 V	~ 150.090 V	(149.998 V)	
RMS (AC+DC)	6V	6V	50kHz	5.98680 V	~ 6.01320 V	(6.00165 V)	
		6V	100kHz	5.92980 V	~ 6.07020 V	(6.00051 V)	
LPF 2MHz		6V	500kHz	5.65680 V	~ 6.34320 V *2	(5.95526 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	(50.0063 A)	
	10A	10A	10Hz	9.9800 A	~ 10.0200 A	(10.0004 A)	
		10A	60Hz	9.9970 A	~ 10.0030 A	(10.0000 A)	
		10A	1kHz	9.9940 A	~ 10.0060 A	(10.0001 A)	
		10A	10kHz	9.9900 A	~ 10.0100 A	(10.0001 A)	
		10A	50kHz	9.9850 A	~ 10.0150 A	(10.0004 A)	
		10A	100kHz	9.8900 A	~ 10.1100 A	(10.0017 A)	
		10A	500kHz	9.4800 A	~ 10.5200 A	(10.0501 A)	
		10A	1MHz	8.9700 A	~ 11.0300 A	(10.1996 A)	

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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>	
CH1								
RMS (AC+DC)		5A 1A	5A	100kHz	4.94400 A	~	5.05600 A	(4.99846 A)
			1A	10Hz	0.99780 A	~	1.00220 A	(0.99995 A)
			1A	60Hz	0.99950 A	~	1.00050 A	(1.00004 A)
			1A	1kHz	0.99920 A	~	1.00080 A	(0.99998 A)
			1A	10kHz	0.99880 A	~	1.00120 A	(1.00002 A)
			1A	50kHz	0.99830 A	~	1.00170 A	(0.99995 A)
			1A	100kHz	0.98880 A	~	1.01120 A	(0.99993 A)
			1A	500kHz	0.94780 A	~	1.05220 A	(0.99968 A)
MEAN (AC+DC)		10A	10A	50Hz	9.9970 A	~	10.0030 A	(9.9994 A)
			10A	1kHz	9.9940 A	~	10.0060 A	(9.9995 A)
RMS (AC+DC) LPF 2MHz		10A	10A	50kHz	9.9800 A	~	10.0200 A	(10.0007 A)
			10A	100kHz	9.8850 A	~	10.1150 A	(10.0026 A)
			10A	500kHz	9.4300 A	~	10.5700 A *2	(10.0532 A)

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

-3. 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	(1.50012 kW)
		150V, 10A, 1.5kW, PF=1	60Hz	1.49955 kW	~	1.50045 kW	(1.49999 kW)
		150V, 10A, 1.5kW, PF=1	10kHz	1.49850 kW	~	1.50150 kW	(1.50013 kW)
		150V, 10A, 1.5kW, PF=1	50kHz	1.49700 kW	~	1.50300 kW	(1.50066 kW)
		150V, 10A, 1.5kW, PF=1	100kHz	1.48200 kW	~	1.51800 kW	(1.50024 kW)
		40V, 10A, 400W, PF=1	500kHz	0.37550 kW	~	0.42450 kW	(0.39828 kW)
		20V, 10A, 200W, PF=1	1MHz	0.17250 kW	~	0.22750 kW	(0.20148 kW)
		6V/50A	6V, 50A, 300W, PF=1	10Hz	299.040 W	~	300.960 W
	6V, 50A, 300W, PF=1		60Hz	299.850 W	~	300.150 W	(300.008 W)
	6V, 50A, 300W, PF=1		10kHz	299.640 W	~	300.360 W	(300.018 W)
	6V, 50A, 300W, PF=1		50kHz	299.340 W	~	300.660 W	(300.080 W)
	6V, 50A, 300W, PF=1		100kHz	296.340 W	~	303.660 W	(300.043 W)
	6V, 50A, 300W, PF=1		500kHz	284.040 W	~	315.960 W	(299.608 W)
	6V, 50A, 300W, PF=1		1MHz	268.440 W	~	331.560 W	(302.551 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>		許容範囲		校正値 *1
			<Volt/Curr/ Pow/PF>	<Freq>	<Tolerance>		<Calibration Value>
CH1							
RMS (AC+DC)		6V/50A	6V, 50A, 300W, PF=1	50kHz	299.190 W	~ 300.810 W	(300.093 W)
LPF 2MHz			6V, 50A, 300W, PF=1	100kHz	296.190 W	~ 303.810 W	(300.089 W)
			6V, 50A, 300W, PF=1	500kHz	282.540 W	~ 317.460 W *2	(299.404 W)

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

-4. 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	89.880 °	~	90.120 °	(90.008 °)	
		150V, 10A, 0W, PF=0	100kHz	89.600 °	~	90.400 °	(89.905 °)	
		40V, 10A, 0W, PF=0	500kHz	85.000 °	~	95.000 °	(90.036 °)	
		20V, 10A, 0W, PF=0	1MHz	80.000 °	~	100.000 °	(90.787 °)	
		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		89.880 °	~	90.120 °	(90.007 °)		
6V, 50A, 0W, PF=0	100kHz		89.600 °	~	90.400 °	(89.948 °)		
6V, 50A, 0W, PF=0	500kHz		85.000 °	~	95.000 °	(90.037 °)		
6V/5A LPF 2MHz	6V, 5A, 0W, PF=0	1MHz	80.000 °	~	100.000 °	(90.650 °)		
	6V, 5A, 0W, PF=0	10kHz	89.880 °	~	90.120 °	(90.001 °)		

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

SAMPLE

検査成績表

<TEST REPORT>

7/7

製造番号<Serial No.> (No. 211143257)
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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)