

検査成績表

<TEST REPORT>

HIOKI
HIOKI E. E. CORPORATION

品名<Model Name> (AC クランプメータ<AC CLAMP METER>)
 形名<Model Number> (CM4141)
 製造番号<Serial No.> (No.181212345)
 検査年月日<Test Date> (2019-01-30)
 (<YYYY-MM-DD>)
 検査条件<Test Conditions> (24.1°C, 48%rh)

項目 <Item>	レンジ <Range>	入力 <Input>	許容範囲 <Tolerance>	校正値 <Calibration Value>
交流電流<AC Current>	60.00A	5.00A 50Hz	4.85 A ~ 5.15 A	(5.01 A)
		54.00A 50Hz	53.11 A ~ 54.89 A	(53.99 A)
	600.0A	20.0A 50Hz	19.4 A ~ 20.6 A	(20.1 A)
		540.0A 50Hz	531.6 A ~ 548.4 A	(539.8 A)
	2000A	200A 50Hz	194 A ~ 206 A	(200 A)
		1800A 50Hz	1770 A ~ 1830 A	(1800 A)
交流電流Peak<AC Current Peak>	60.00A	120.0Apeak 50Hz	117.4 A ~ 122.6 A	(120.1 A)
		-120.0Apeak 50Hz	-122.6 A ~ -117.4 A	(-120.1 A)
	600.0A	1200Apeak 50Hz	1179 A ~ 1221 A	(1199 A)
		-1200Apeak 50Hz	-1221 A ~ -1179 A	(-1199 A)
	2000A	2500Apeak 50Hz	2433 A ~ 2567 A	(2499 A)
		-2500Apeak 50Hz	-2567 A ~ -2433 A	(-2498 A)
交流電流周波数特性<AC Current Frequency Characteristic>	600.0A Filter ON	200.0A 30Hz	194.5 A ~ 205.5 A	(199.8 A)
		200.0A 66Hz	195.7 A ~ 204.3 A	(199.6 A)
	600.0A Filter OFF	200.0A 30Hz	195.5 A ~ 204.5 A	(199.9 A)
		200.0A 500Hz	195.5 A ~ 204.5 A	(200.1 A)
		200.0A 1000Hz	195.5 A ~ 204.5 A	(199.7 A)
電流周波数<AC Current Frequency>	99.99Hz	20.00A 90.00Hz	89.90 Hz ~ 90.10 Hz	(90.01 Hz)
	999.9Hz	20.00A 900.0Hz	899.0 Hz ~ 901.0 Hz	(900.0 Hz)
突入電流<Inrush Current>	60.00A Inrush rms	5.00A 50Hz	4.62 A ~ 5.38 A	(5.01 A)
		54.00A 50Hz	51.17 A ~ 56.83 A	(53.98 A)
	600.0A Inrush rms	20.0A 50Hz	17.7 A ~ 22.3 A	(20.0 A)
		540.0A 50Hz	511.7 A ~ 568.3 A	(539.7 A)
	2000A Inrush rms	200A 50Hz	177 A ~ 223 A	(200 A)
		1800A 50Hz	1697 A ~ 1903 A	(1798 A)
突入電流Peak<Inrush Current Peak>*1	60.00A Inrush peak	120.0Apeak 50Hz	113.0 A ~ 127.0 A	(120.0 A)
	600.0A Inrush peak	1200Apeak 50Hz	1130 A ~ 1270 A	(1204 A)
	2000A Inrush peak	2500Apeak 50Hz	2275 A ~ 2725 A	(2500 A)

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.>

*1 突入電流Peakの校正値は絶対値で表記しています。

<The calibration values for Inrush Current Peak are expressed in terms of absolute value.>

*2 「直流電圧／交流＋直流電圧」は測定回路共通のため、直流電圧のみ検査しています。

<Because the [DC V / AC+DC V] functions share a common measurement circuit, inspection will only be conducted for DC V. >

*3 「交流＋直流電圧」は非該当。<AC+DC Voltage range not available. >

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

SAMPLE

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項目 <Item>	レンジ <Range>	入力 <Input>	許容範囲 <Tolerance>	校正値 <Calibration Value>
交流電圧<AC Voltage>				
6.000V Filter OFF		0.300V 50Hz	0.295 V ~ 0.305 V	(0.300 V)
		5.400V 50Hz	5.349 V ~ 5.451 V	(5.400 V)
60.00V Filter OFF		3.00V 50Hz	2.95 V ~ 3.05 V	(3.00 V)
		54.00V 50Hz	53.49 V ~ 54.51 V	(53.99 V)
600.0V Filter OFF		30.0V 50Hz	29.5 V ~ 30.5 V	(30.0 V)
		540.0V 50Hz	534.9 V ~ 545.1 V	(540.0 V)
1000V Filter OFF		900V 50Hz	889 V ~ 911 V	(900 V)
直流電圧／交流＋直流電圧<DC Voltage / AC+DC Voltage> ²				
600.0mV ³		-540.0mV DC	-543.2 mV ~ -536.8 mV	(-540.1 mV)
		0.0mV DC	-0.5 mV ~ 0.5 mV	(-0.1 mV)
6.000V		540.0mV DC	536.8 mV ~ 543.2 mV	(540.0 mV)
		-5.400V DC	-5.430 V ~ -5.370 V	(-5.400 V)
60.00V		0.000V DC	-0.003 V ~ 0.003 V	(0.000 V)
		5.400V DC	5.370 V ~ 5.430 V	(5.400 V)
600.0V		-54.00V DC	-54.30 V ~ -53.70 V	(-54.00 V)
		0.00V DC	-0.03 V ~ 0.03 V	(0.00 V)
1500V		54.00V DC	53.70 V ~ 54.30 V	(54.00 V)
		-540.0V DC	-543.0 V ~ -537.0 V	(-540.0 V)
		0.0V DC	-0.3 V ~ 0.3 V	(0.0 V)
		540.0V DC	537.0 V ~ 543.0 V	(540.0 V)
		900V DC	-907 V ~ -893 V	(-900 V)
		900V DC	893 V ~ 907 V	(900 V)
交流電圧 Peak<AC Voltage Peak>				
6.000V	±10.00Vpeak	50Hz	9.78 V ~ 10.22 V	(9.95 V)
			-10.22 V ~ -9.78 V	(-10.06 V)
60.00V	±100.0Vpeak	50Hz	97.8 V ~ 102.2 V	(99.9 V)
			-102.2 V ~ -97.8 V	(-100.0 V)
600.0V	±1000Vpeak	50Hz	1022 V ~ 1022 V	(999 V)
			-1022 V ~ -978 V	(-1000 V)
直流電圧／交流＋直流電圧 Peak<DC Voltage / AC+DC Voltage Peak> ²				
600.0mV ³	±1000mVpeak	50Hz	983 mV ~ 1017 mV	(1000 mV)
			-1017 mV ~ -983 mV	(-1000 mV)
6.000V	±10.00Vpeak	50Hz	9.83 V ~ 10.17 V	(10.01 V)
			-10.17 V ~ -9.83 V	(-9.99 V)
60.00V	±100.0Vpeak	50Hz	98.3 V ~ 101.7 V	(100.1 V)
			-101.7 V ~ -98.3 V	(-100.0 V)
600.0V	±1000Vpeak	50Hz	983 V ~ 1017 V	(1000 V)
			-1017 V ~ -983 V	(-1001 V)
交流電圧周波数特性<AC Voltage Frequency Characteristic>				
6.000V Filter ON		5.400V 15Hz	5.287 V ~ 5.513 V	(5.388 V)
		5.400V 66Hz	5.322 V ~ 5.478 V	(5.388 V)
6.000V Filter OFF		5.400V 15Hz	5.314 V ~ 5.486 V	(5.387 V)
		5.400V 1000Hz	5.314 V ~ 5.486 V	(5.391 V)
60.00V Filter OFF		54.00V 1000Hz	53.14 V ~ 54.86 V	(53.83 V)
600.0V Filter OFF		540.0V 1000Hz	531.4 V ~ 548.6 V	(538.1 V)
交流＋直流電圧 周波数特性<AC+DC Voltage Frequency Characteristic>				
6.000V Filter ON		5.400V 66Hz	5.306 V ~ 5.494 V	(5.388 V)
6.000V Filter OFF		5.400V 1000Hz	5.306 V ~ 5.494 V	(5.401 V)
60.00V Filter OFF		54.00V 1000Hz	53.06 V ~ 54.94 V	(53.90 V)
600.0V Filter OFF		540.0V 1000Hz	531.2 V ~ 548.8 V	(538.6 V)

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電圧周波数<Voltage Frequency>	9.999Hz	0.600V 9.000Hz	8.988 Hz ~ 9.012 Hz	(9.000 Hz)
	99.99Hz	0.600V 90.00Hz	89.90 Hz ~ 90.10 Hz	(90.00 Hz)
	999.9Hz	0.600V 900.0Hz	899.0 Hz ~ 901.0 Hz	(900.0 Hz)
導通チェック<Continuity Check>	600.0Ω	0.0Ω	-0.5 Ω ~ 0.5 Ω	(0.1 Ω)
		540.0Ω	535.8 Ω ~ 544.2 Ω	(540.1 Ω)
抵抗<Resistance>	600.0Ω	0.0Ω	-0.5 Ω ~ 0.5 Ω	(0.0 Ω)
		540.0Ω	535.8 Ω ~ 544.2 Ω	(540.3 Ω)
	6.000kΩ	0.000kΩ	-0.005 kΩ ~ 0.005 kΩ	(0.000 kΩ)
		5.400kΩ	5.358 kΩ ~ 5.442 kΩ	(5.402 kΩ)
	60.00kΩ	0.00kΩ	-0.05 kΩ ~ 0.05 kΩ	(0.00 kΩ)
		54.00kΩ	53.58 kΩ ~ 54.42 kΩ	(54.02 kΩ)
	600.0kΩ	0.0kΩ	-0.5 kΩ ~ 0.5 kΩ	(0.0 kΩ)
		540.0kΩ	535.8 kΩ ~ 544.2 kΩ	(540.1 kΩ)
ダイオード<Diode>	1.800V	1.500V	1.485 V ~ 1.515 V	(1.501 V)
静電容量<Capacitance>	1.000μF	0.009μF	0.004 μF ~ 0.014 μF	(0.009 μF)
		0.090μF	0.084 μF ~ 0.096 μF	(0.089 μF)
		0.900μF	0.878 μF ~ 0.922 μF	(0.901 μF)
	10.00μF	9.00μF	8.78 μF ~ 9.22 μF	(9.01 μF)
	100.0μF	90.0μF	87.8 μF ~ 92.2 μF	(90.1 μF)
	1000μF	900μF	878 μF ~ 922 μF	(903 μF)
温度<Temperature>	-40.0~400.0℃	0.0℃	-3.0 ℃ ~ 3.0 ℃	(-0.1 ℃)
		360.0℃	355.2 ℃ ~ 364.8 ℃	(359.7 ℃)