

Name of Accreditation Program	JCSS Accreditation Program
Accreditation Identification	JCSS 0156 Calibration
Name of Conformity Assessment Body	Quality Assurance Division, HIOKI E. E. CORPORATION
Name of Legal Entity	HIOKI E. E. CORPORATION JCN 6100001010247
Inquiry Point	Quality Assurance Division TEL: +81-268-28-0582 FAX: +81-268-28-0595

*JCN: Japan Corporate Number



25•04•09-NITE-004
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Certificate of Accreditation

International Accreditation Japan (IAJapan) hereby accredits the following conformity assessment body as a calibration laboratory of Japan Calibration Service System.

Accreditation Identification: JCSS 0156 Calibration

Name of Conformity Assessment Body: Quality Assurance Division,
HIOKI E. E. CORPORATION

Name of Legal Entity: HIOKI E. E. CORPORATION

Location of Conformity Assessment Body: 81, Koizumi, Ueda-shi, Nagano 386-1192, JAPAN

Scope of Accreditation: Time & Frequency & Rotational speed,
Electricity (Direct Current & Low Frequency)
(as the following pages)

Accreditation Requirement: ISO/IEC 17025:2017*

* The relevant accreditation requirements described in the Accreditation Scheme Document for JCSS are also applied.

Effective Date of Accreditation: 2025-01-29

Expiry Date of Accreditation: 2029-01-28

Date of Initial Accreditation: 2008-06-11

ISHIGE Hiromi

ISHIGE Hiromi

Chief Executive, International Accreditation Japan (IAJapan)

National Institute of Technology and Evaluation

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- International Accreditation Japan (IAJapan) is a laboratory accreditation body which has signed MRAs of ILAC (International Laboratory Accreditation Cooperation) and APAC (Asia Pacific Accreditation Cooperation).
 - MRA requirements are, in addition to relevant international standards and guides, requirements for participation in proficiency testing programs, surveillance and reassessment, and the policy for the traceability of measurement for MRA purpose.
 - This laboratory fulfills ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation means this laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).
 - The latest accreditation information is publicly available on IAJapan Website as an accreditation certificate.

General Field of Calibration: Time & Frequency & Rotational speed

Date of Initial Accreditation of the Field: 2015-02-05

Laboratory's permanent facility/On-site Calibration: Laboratory's permanent facility

Calibration and Measurement Capabilities

Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range	Expanded Uncertainty (Level of Confidence Approximately 95 %)
Time & Frequency Counter, etc.	Frequency Counter	From 0.5 Hz up to 1 Hz	0.1 mHz/Hz
		More than 1 Hz less than 2.5 Hz	0.05 mHz/Hz
		From 2.5 Hz less than 6 Hz	0.02 mHz/Hz
		From 6 Hz up to 500 kHz	0.01 mHz/Hz
	Time-Interval Measuring Equipment	10 s	2 μ s/s

#All Calibration Procedures are in-house procedures developed by this laboratory.

Note: The values in the CMC column include sources of uncertainty attributed to a unit under test.

General Field of Calibration: Electricity (Direct Current & Low Frequency)

Date of Initial Accreditation of the Field: 2008-06-11

Laboratory's permanent facility/On-site Calibration: Laboratory's permanent facility

Calibration and Measurement Capabilities

Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range	Expanded Uncertainty (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	DC Voltage Source	100 mV	23 μ V/V
		1 V	12 μ V/V
		10 V	10 μ V/V
		100 V	13 μ V/V
		1000 V	26 μ V/V
	DC Voltage Measuring Equipment	100 mV	23 μ V/V
		1 V	12 μ V/V
		10 V	10 μ V/V
		More than 10 V less than 20 V	1.8 mV/V
		From 20 V less than 40 V	1.3 mV/V
		From 40 V less than 100 V	0.88 mV/V
		100 V	13 μ V/V
		More than 100 V less than 200 V	2.4 mV/V
		From 200 V less than 400 V	2.1 mV/V
		From 400 V less than 1000 V	1.9 mV/V
		1000 V	26 μ V/V
	DC Resistor	100 m Ω	20 $\mu\Omega/\Omega$
		1 Ω	10 $\mu\Omega/\Omega$
		10 Ω	10 $\mu\Omega/\Omega$
		100 Ω	14 $\mu\Omega/\Omega$
		1 k Ω	10 $\mu\Omega/\Omega$
		10 k Ω	10 $\mu\Omega/\Omega$
		100 k Ω	10 $\mu\Omega/\Omega$
		1 M Ω	19 $\mu\Omega/\Omega$
	DC Resistance Measuring Equipment	100 m Ω	0.2 m Ω/Ω
		1 Ω	20 $\mu\Omega/\Omega$
		10 Ω	10 $\mu\Omega/\Omega$
		100 Ω	14 $\mu\Omega/\Omega$
		1 k Ω	10 $\mu\Omega/\Omega$
		10 k Ω	10 $\mu\Omega/\Omega$
		100 k Ω	10 $\mu\Omega/\Omega$
		1 M Ω	18 $\mu\Omega/\Omega$

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range	Expanded Uncertainty (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Direct Current Source	100 μ A	15 μ A/A
		1 mA	15 μ A/A
		10 mA	18 μ A/A
		100 mA	25 μ A/A
	Direct Current Measuring Equipment	100 μ A	15 μ A/A
		1 mA	15 μ A/A
		10 mA	18 μ A/A
		100 mA	25 μ A/A
		From 1 A less than 1.875 A	1.6 mA/A
		1.875 A	0.78 mA/A
		More than 1.875 A less than 2.5 A	0.96 mA/A
		2.5 A	0.78 mA/A
		More than 2.5 A less than 3.75 A	0.96 mA/A
		From 3.75 A up to 5 A	0.78 mA/A
		More than 5 A less than 7.5 A	0.97 mA/A
		From 7.5 A up to 10 A	0.79 mA/A
		More than 10 A less than 15 A	0.96 mA/A
		15 A	0.79 mA/A
		More than 15 A less than 20 A	0.96 mA/A
		20 A	0.78 mA/A
		More than 20 A less than 30 A	0.91 mA/A
		From 30 A up to 40 A	0.79 mA/A
		More than 40 A less than 50 A	0.96 mA/A
		50 A	0.78 mA/A
		More than 50 A less than 75 A	1.6 mA/A
		75 A	0.79 mA/A
		More than 75 A less than 100 A	0.97 mA/A
		100 A	0.79 mA/A
		More than 100 A less than 150 A	0.91 mA/A
		150 A	0.79 mA/A
		More than 150 A less than 200 A	0.83 mA/A
		200 A	0.79 mA/A
		More than 200 A less than 250 A	1.1 mA/A
		250 A	0.91 mA/A
		More than 250 A less than 375 A	0.94 mA/A
		From 375 A up to 500 A	0.91 mA/A
		More than 500 A less than 600 A	1.2 mA/A
		From 600 A up to 800 A	0.98 mA/A
		More than 800 A up to 1000 A	1.2 mA/A

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	AC Voltage Source	1 V	50 Hz, 60 Hz 1 kHz	0.12 mV/V
		10 V		0.12 mV/V
		100 V		0.26 mV/V
		700 V		0.50 mV/V
	AC Voltage Measuring Equipment	From 100 V up to 200 V	10 Hz, 20 Hz 30 Hz	2.0 mV/V
		From 100 V up to 1000 V	40 Hz	2.0 mV/V
		1 V, 10 V	50 Hz, 60 Hz	0.12 mV/V
		100 V		0.26 mV/V
		More than 100 V less than 200 V		0.91 mV/V
		From 200 V less than 700 V		0.70 mV/V
		700 V		0.50 mV/V
		More than 700 V up to 1000 V		0.70 mV/V
		From 100 V up to 1000 V	100 Hz, 200 Hz 400 Hz, 500 Hz	2.0 mV/V
		1 V, 10 V	1 kHz	0.12 mV/V
		100 V		0.26 mV/V
		More than 100 V up to 600 V		2.0 mV/V
		700 V		0.50 mV/V
		From 100 V up to 600 V	2 kHz	2.0 mV/V
		From 100 V up to 600 V	5 kHz, 10 kHz	3.3 mV/V
		From 100 V up to 200 V	20 kHz, 50 kHz	4.9 mV/V
		From 100 V up to 200 V	70 kHz, 100 kHz	5.3 mV/V
	Alternating Current Source	10 mA	50 Hz, 60 Hz	0.94 mA/A
		100 mA		0.95 mA/A
		1 A		1.4 mA/A
	Alternating Current Measuring Equipment	From 1 A less than 1.875 A	10 Hz, 20 Hz 30 Hz, 40 Hz	0.79 mA/A
		From 1.875 A up to 20 A		0.76 mA/A
		More than 20 A less than 37.5 A		0.79 mA/A
		From 37.5 A up to 50 A		0.76 mA/A
		More than 50 A up to 200 A		0.97 mA/A
		More than 200 A up to 1000 A		1.1 mA/A
		9 mA	50 Hz, 60 Hz	0.098 A/A
		10 mA		0.94 mA/A
		27 mA	50 Hz	0.036 A/A
			60 Hz	0.035 A/A
		90 mA	50 Hz	0.013 A/A
			60 Hz	0.018 A/A
		100 mA	50 Hz, 60 Hz	0.95 mA/A
		270 mA	50 Hz	0.015 A/A
			60 Hz	0.014 A/A

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Alternating Current Measuring Equipment	0.9 A	50 Hz, 60Hz	0.016 A/A
		From 1 A up to 20 A	50 Hz, 60 Hz	0.68 mA/A
		More than 20 A less than 37.5 A		0.73 mA/A
		From 37.5 A up to 50 A		0.69 mA/A
		More than 50 A up to 200 A		0.84 mA/A
		More than 200 A up to 1000 A		1.1 mA/A
		From 1 A less than 1.875 A	100 Hz	0.79 mA/A
		From 1.875 A up to 50 A		0.76 mA/A
		More than 50 A up to 200 A		0.88 mA/A
		More than 200 A up to 1000 A		1.4 mA/A
		From 1 A up to 50 A	200 Hz, 400 Hz	1.1 mA/A
		More than 50 A up to 200 A		1.3 mA/A
		More than 200 A up to 500 A		2.5 mA/A
		More than 500 A up to 800 A		4.2 mA/A
		More than 800 A up to 1000 A		9.1 mA/A
		From 1 A up to 50 A	500 Hz, 1 kHz	1.1 mA/A
		More than 50 A up to 200 A		1.3 mA/A
		More than 200 A up to 500 A		2.5 mA/A
		From 1 A up to 50 A	2 kHz, 5 kHz 10 kHz	1.5 mA/A
		More than 50 A up to 200 A		2.2 mA/A
		From 1 A less than 20 A	20 kHz	6.3 mA/A
		From 20 A up to 100 A		5.9 mA/A
		From 1 A less than 20 A	50 kHz	6.3 mA/A
		From 20 A up to 50 A		5.9 mA/A
		From 1 A less than 10 A	70 kHz	13 mA/A
		From 10 A less than 20 A		6.3 mA/A
		From 20 A up to 50 A		5.9 mA/A
		From 1 A less than 10 A	100 kHz	13 mA/A
		From 10 A less than 20 A		6.3 mA/A
		From 20 A up to 25 A		5.9 mA/A

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)
Direct Current & Low Frequency Measuring Equipment, etc.	Power Meter (DC)	From 1 A less than 1.875 A	10 V, From 20 V less than 40 V	2.0 mW/W
		From 1.875 A less than 3.75 A		1.8 mW/W
		From 3.75 A up to 5 A		1.7 mW/W
		More than 5 A less than 7.5 A		1.8 mW/W
		From 7.5 A up to 20 A		1.7 mW/W
		More than 20 A less than 37.5 A		1.8 mW/W
		From 37.5 A up to 50 A		1.7 mW/W
		More than 50 A up to 500 A		2.1 mW/W
		More than 500 A up to 1000 A		1.9 mW/W
		From 1 A less than 1.875 A	More than 10 V less than 20 V	2.4 mW/W
		From 1.875 A up to 5 A		2.0 mW/W
		More than 5 A less than 7.5 A		2.2 mW/W
		From 7.5 A up to 20 A		2.0 mW/W
		More than 20 A less than 37.5 A		2.1 mW/W
		From 37.5 A up to 50 A		2.0 mW/W
		More than 500 A up to 1000 A		2.4 mW/W
		More than 50 A less than 75 A	More than 10 V less than 20 V (Except 12 V)	2.4 mW/W
		From 75 A up to 200 A		2.1 mW/W
		More than 200 A less than 500 A		2.2 mW/W
		More than 50 A up to 500 A	12 V	2.1 mW/W
		From 1 A less than 1.875 A	From 40 V up to 100 V	1.8 mW/W
		From 1.875 A up to 200 A		1.8 mW/W
		More than 200 A up to 1000 A		1.4 mW/W
		From 1 A less than 1.875 A	More than 100 V less than 200 V	2.9 mW/W
		From 1.875 A up to 5 A		2.6 mW/W
		More than 5 A less than 7.5 A		2.9 mW/W
		From 7.5 A up to 20 A		2.6 mW/W
		More than 20 A less than 37.5 A		2.9 mW/W
		From 37.5 A up to 50 A		2.6 mW/W
		More than 50 A up to 1000 A		2.9 mW/W
		From 1 A less than 1.875 A	From 200 V less than 400 V	2.6 mW/W
		From 1.875 A up to 5 A		2.3 mW/W
		More than 5 A less than 7.5 A		2.4 mW/W
		From 7.5 A up to 10 A		2.3 mW/W
		More than 500 A up to 1000 A		2.4 mW/W
		From 10 A up to 20 A	From 200 V less than 400 V (Except 200 V)	2.3 mW/W
		More than 20 A less than 37.5 A		2.4 mW/W
		From 37.5 A up to 50 A		2.3 mW/W
		More than 50 A less than 75 A		2.9 mW/W
		From 75 A up to 500 A		2.4 mW/W
		From 10 A up to 500 A	200 V	2.1 mW/W

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)
Electric Power Measuring Equipment, etc	Power Meter (DC)	From 1 A less than 1.875 A	From 400 V up to 1000 V	2.6 mW/W
		From 1.875 A less than 7.5 A		2.3 mW/W
		From 7.5 A less than 10 A		2.2 mW/W
		More than 500 A up to 1000 A		2.4 mW/W
		From 10 A up to 20 A	From 400 V up to 1000 V (Except 400 V, 600 V 1 kV)	2.2 mW/W
		More than 20 A less than 37.5 A		2.4 mW/W
		From 37.5 A up to 50 A		2.2 mW/W
		More than 50 A up to 500 A		2.4 mW/W
		More than 10 A up to 500 A	400 V, 600 V, 1 kV	2.1 mW/W
	Power Meter (Active Power)	From 1 A up to 50 A Power factor: 1	From 100 V up to 200 V 10 Hz, 20 Hz, 30 Hz	2.1 mW/(V·A)
		More than 50 A up to 200 A Power factor: 1		2.3 mW/(V·A)
		More than 200 A up to 1000 A Power factor: 1		2.5 mW/(V·A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 1000 V 40 Hz	2.1 mW/(V·A)
		More than 50 A up to 200 A Power factor: 1		2.3 mW/(V·A)
		More than 200 A up to 1000 A Power factor: 1		2.5 mW/(V·A)
		From 1 mA less than 2 mA Power factor: 0 (lag)~1~0 (lead)	100 V, 200 V 50 Hz, 60 Hz	1.6 mW/(V·A)
		From 2 mA up to 9 mA Power factor: 0 (lag)~1~0 (lead)		1.2 mW/(V·A)
		More than 9 mA up to 30 mA Power factor: 0 (lag)~1~0 (lead)		1.6 mW/(V·A)
		More than 30 mA less than 50 mA Power factor: 0 (lag)~1~0 (lead)		2.1 mW/(V·A)
		From 50 mA less than 0.1 A Power factor: 0 (lag)~1~0 (lead)		1.6 mW/(V·A)
		From 0.1 A up to 1 A Power factor: 0 (lag)~1~0 (lead) Except 100 V, 1 A, Power factor: 1, 0.5, 200 V, 1 A, Power factor: 1		1.2 mW/(V·A)
		More than 1 A less than 2 A Power factor: 0 (lag)~1~0 (lead) Except Power factor: 1		1.6 mW/(V·A)

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)
Electric Power Measuring Equipment, etc	Power Meter (Active Power)	From 1 A up to 50 A Power factor: 1	100 V 50 Hz, 60 Hz	0.98 mW/(V·A)
		More than 50 A up to 200 A Power factor: 1		1.1 mW/(V·A)
		More than 200 A less than 1000 A Power factor: 1 Except 225A, 250A, 500 A		1.4 mW/(V·A)
		1 A Power factor: 0.5		1.0 mW/(V·A)
		From 1 A up to 20 A Power factor: 1 Except 5A	200 V 50 Hz, 60 Hz	0.98 mW/(V·A)
		More than 20 A less than 50 A Power factor: 1		1.1 mW/(V·A)
		50 A Power factor: 1		0.98 mW/(V·A)
		More than 50 A up to 200 A Power factor: 1		1.1 mW/(V·A)
		More than 200 A up to 1000 A Power factor: 1 Except 225A, 250A, 500 A		1.4 mW/(V·A)
		5 A Power factor: 1		0.9 mW/(V·A)
		5 A Power factor: 0.5		1.0 mW/(V·A)
		From 2 A less than 25 A Power factor: 0 (lag)~1~0 (lead); Except Power factor 1, 200 V, 5 A, Power factor 0.5	100 V, 200 V 50 Hz, 60 Hz	1.2 mW/(V·A)
		From 25 A up to 125 A Power factor: 0 (lag)~1~0 (lead); Except Power factor 1, 50 A, 80 A, 90 A, 100 A Power factor: 0 (lag)~1~0 (lead)		1.5 mW/(V·A)
		More than 125 A up to 250 A Power factor: 0 (lag)~1~0 (lead); Except Power factor 1, 200 A, 225 A, 250 A Power factor: 0 (lag)~1~0 (lead)		3.9 mW/(V·A)
		50 A, 80 A, 90 A, 100 A, 200 A, 225 A, 250 A 500 A Power factor: 0 (lag)~1~0 (lead) Except 50 A, 80 A, 90 A, 100 A, 200 A Power factor: 1		1.1 mW/(V·A)
		400 A, 450 A 1000 A Power factor: 0 (lag)~1~0 (lead) Except Power factor: 1		3.9 mW/(V·A)
		From 1 A up to 50 A Power factor: 1	More than 100 V less than 200 V 50 Hz, 60 Hz	1.2 mW/(V·A)
		More than 50 A up to 200 A Power factor: 1		1.3 mW/(V·A)
		More than 200 A up to 1000 A Power factor: 1		1.4 mW/(V·A)

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)
Electric Power Measuring Equipment, etc	Power Meter (Active Power)	From 1 A up to 20 A Power factor: 1	More than 200 V less than 400 V 50 Hz, 60 Hz	0.98 mW/(V · A)
		More than 20 A less than 50 A Power factor: 1		1.1 mW/(V · A)
		50 A Power factor: 1		0.98 mW/(V · A)
		More than 50 A up to 200 A Power factor: 1		1.1 mW/(V · A)
		More than 200 A up to 1000 A Power factor: 1		1.4 mW/(V · A)
		From 1 A up to 50 A Power factor: 1	From 400 V up to 1000 V 50 Hz, 60 Hz	0.98 mW/(V · A)
		More than 50 A up to 200 A Power factor: 1		1.1 mW/(V · A)
		More than 200 A up to 1000 A Power factor: 1		1.4 mW/(V · A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 1000 V 100 Hz	2.1 mW/(V · A)
		More than 50 A up to 200 A Power factor: 1		2.3 mW/(V · A)
		More than 200 A up to 1000 A Power factor: 1		2.4 mW/(V · A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 1000 V 200 Hz, 400 Hz	2.2 mW/(V · A)
		More than 50 A up to 200 A Power factor: 1		2.3 mW/(V · A)
		More than 200 A up to 500 A Power factor: 1		3.2 mW/(V · A)
		More than 500 A up to 800 A Power factor: 1		4.6 mW/(V · A)
		More than 800 A up to 1000 A Power factor: 1		9.3 mW/(V · A)
		From 0.001 A less than 0.002 A Power factor: 1	100 V, 200 V 400 Hz	3.5 mW/(V · A)
		From 0.002 A up to 0.03 A Power factor: 1		3.0 mW/(V · A)
		More than 0.03 A less than 0.1 A Power factor: 1		3.5 mW/(V · A)
		From 0.1 A less than 1 A Power factor: 1		3.0 mW/(V · A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 1000 V 500 Hz	2.2 mW/(V · A)
		More than 50 A up to 200 A Power factor: 1		2.3 mW/(V · A)
		More than 200 A up to 500 A Power factor: 1		3.2 mW/(V · A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 600 V 1 kHz	2.2 mW/(V · A)
		More than 50 A up to 200 A Power factor: 1		2.3 mW/(V · A)
		More than 200 A up to 500 A Power factor: 1		3.2 mW/(V · A)

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Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)
Electric Power Measuring Equipment, etc	Power Meter (Active Power)	From 0.001 A less than 0.002 A Power factor: 1	100 V, 200 V 1 kHz	4.3 mW/(V·A)
		From 0.002 A up to 0.03 A Power factor: 1		3.9 mW/(V·A)
		More than 0.03 A less than 0.1 A Power factor: 1		4.3 mW/(V·A)
		From 0.1 A less than 1 A Power factor: 1		3.9 mW/(V·A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 600 V 2 kHz	2.4 mW/(V·A)
		More than 50 A up to 200 A Power factor: 1		2.9 mW/(V·A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 600 V 5 kHz, 10 kHz	3.6 mW/(V·A)
		More than 50 A up to 200 A Power factor: 1		3.9 mW/(V·A)
		From 1 A up to 100 A Power factor: 1	From 100 V up to 200 V 20 kHz	7.9 mW/(V·A)
		From 1 A up to 50 A Power factor: 1	From 100 V up to 200 V 50 kHz	7.9 mW/(V·A)
		From 1 A less than 10 A Power factor: 1	From 100 V up to 200 V 70 kHz	14 mW/(V·A)
		From 10 A less than 20 A Power factor: 1		8.2 mW/(V·A)
		From 20 A up to 50 A Power factor: 1		7.9 mW/(V·A)
		From 1 A less than 10 A Power factor: 1	From 100 V up to 200 V 100 kHz	14 mW/(V·A)
		From 10 A less than 20 A Power factor: 1		8.2 mW/(V·A)
		From 20 A up to 25 A Power factor: 1		7.9 mW/(V·A)

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