



中国认可
国际互认
检测
TESTING
CNAS L14701

Auszug Nr. /Extract No: BL-DG2530186-201 A2
E.4 Einheitenzertifikat
E.4 Unit certificate

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|---|--|--------------------------------------|--------------------------------------|--------------------------------------|
| Hersteller: <i>Manufacturer:</i> | Hoymiles Power Electronics Inc. No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China | | | |
| Modell: <i>Model:</i> | MIT-4000-8TL, MIT-4000-8T, MIT-4500-8TL, MIT-4500-8T, MIT-5000-8TL, MIT-5000-8T, MIT-5500-12T, MIT-6000-12T | | | |
| Typ Erzeugungseinheit: <i>Power generation unit type:</i> | <input checked="" type="checkbox"/> Umrichter <i>Inverter</i> <input type="checkbox"/> Asynchrongenerator <i>Asynchronous generator</i> <input type="checkbox"/> Synchrongenerator <i>Synchronous generator</i> <input type="checkbox"/> Stirlinggenerator <i>Stirling generator</i> <input type="checkbox"/> Brennstoffzelle <i>Fuel cell</i> <input type="checkbox"/> andere: _____ <i>Other: _____</i> | | | |
| Bemessungswerte: <i>Assessment values:</i> | Modell: <i>Model:</i> | MIT-4000-8TL, MIT-4000-8T | MIT-4500-8TL, MIT-4500-8T | MIT-5000-8TL, MIT-5000-8T |
| Bemessungswerte: <i>Assessment values:</i> | Max. Wirkleistung $P_{E\max}$ [W]: <i>Max. active power $P_{E\max}$</i> [W]: | 3967.04 | 4480.49 | 5002.81 |
| | Max. Scheinleistung $S_{E\max}$ [VA]: <i>Max. apparent power $S_{E\max}$</i> [VA]: | 4052.13 | 4583.21 | 5092.50 |
| | Bemessungsspannung [Va.c.]: <i>Rated voltage [Va.c.]</i> : | 230/400, 3L/N/PE | | |

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|--|--|---|--------------------------------------|--------------------------------------|
| Bemessungswerte: Assessment values: | Modell: <i>Model:</i> | MIT-5500-12T | | MIT-6000-12T |
| | Max. Wirkleistung $P_{E\max}$ [W]: <i>Max. active power $P_{E\max}$</i> [W]: | 5506.79 | | 5962.77 |
| | Max. Scheinleistung $S_{E\max}$ [VA]: <i>Max. apparent power</i> $S_{E\max}$ [VA]: | 5603.65 | | 6114.04 |
| | Bemessungsspannung [Va.c.]: <i>Rated voltage [Va.c.]:</i> | 230/400, 3L/N/PE | | |
| Bemessungswerte: Rated values: | Modell: <i>Model:</i> | MIT-4000-8TL, MIT-4000-8T | MIT-4500-8TL, MIT-4500-8T | MIT-5000-8TL, MIT-5000-8T |
| | Bemessungsstrom (AC) I_r [Aa.c.]: <i>Rated current (AC) I_r</i> [Aa.c.]: | 5.79 | 6.52 | 7.25 |
| | Anfangs- Kurzschlusswechselstro m [Aa.c.]: <i>Initial short-circuit AC</i> <i>current [Aa.c.]:</i> | 5.79 | 6.52 | 7.25 |
| | Modell: <i>Model:</i> | MIT-5500-12T | | MIT-6000-12T |
| Bemessungswerte: Rated values: | Bemessungsstrom (AC) I_r [Aa.c.]: <i>Rated current (AC) I_r</i> [Aa.c.]: | 7.97 | | 8.70 |
| | Anfangs- Kurzschlusswechselstro m [Aa.c.]: <i>Initial short-circuit AC</i> <i>current [Aa.c.]:</i> | 7.97 | | 8.70 |
| | Netzanschlussregel : Network connection rule: | VDE-AR-N 4105:2018 "Erzeugungsanlagen am Niederspannungsnetz" Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen mit Anschluss an das Niederspannungsnetz. VDE-AR-N 4105:2018 "Generators connected to the low-voltage distribution network" | | |

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| | <i>Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network.</i> |
| Prüfanforderung: Test requirement: | DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Netzintegration von Erzeugungsanlagen - Niederspannung" Prüfanforderungen für Erzeugungseinheiten zum Anschluss und Parallelbetrieb am Niederspannungsnetz <i>DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Network integration of power generation systems - Low voltage"</i> <i>Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network</i> |
| Prüfbericht: Test report: | Dieser Auszug aus dem Prüfbericht fasst das Ergebnis des Prüfberichts Nr. BL-DG2530186-201 ausgestellt am Mar. 25, 2025 <i>This extract from the test report summarizes the result of the test report No. BL-DG2530186-201 issued on Mar. 25, 2025.</i> |
| <p>Die oben bezeichnete Erzeugungseinheit erfüllt die Anforderungen der VDE-AR-N 4105. <i>The above designated power generation unit meets the requirements of VDE-AR-N 4105.</i></p> <p>Dieser Anteilschein darf nicht auszugsweise verwendet werden. <i>This unit certificate shall not be used in extracts.</i></p> | |

E.5 Prüfbericht "Netzrückwirkungen" für Erzeugungseinheiten mit einem Eingangsstrom > 75 A
E.5 Test report "Network interactions" for power generation units with an input current > 75 A

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|--|---|---|--|--|--|
| Systemhersteller: System manufacturer: | Hoymiles Power Electronics Inc. No. 18 Kangjing Road, Hangzhou, Zhejiang Province, P.R. China | | | | |
| | Anlagentyp (BHKW, PV-WR, ...): <i>System type (BHKW, PV-WR, ...):</i> | PV-Mikrowechselrichter <i>PV Microinverter</i> | | | |
| Herstellerangaben: Manufacturer indications: | Modell: <i>Model:</i> | MIT-4000-8TL, MIT-4000-8T | MIT-4500-8TL, MIT-4500-8T | MIT-5000-8TL, MIT-5000-8T | |
| | Max. Wirkleistung $P_{E\max}$ [W]: <i>Max. active power</i> $P_{E\max}$ [W]: | 4000 | 4500 | 5000 | |
| | Bemessungsspannung <i>Rated voltage</i> | 230/400, 3L/N/PE | | | |
| Herstellerangaben: Manufacturer indications: | Anlagentyp (BHKW, PV-WR, ...): <i>System type (BHKW, PV-WR, ...):</i> | PV-Mikrowechselrichter <i>PV Microinverter</i> | | | |
| | Modell: <i>Model:</i> | MIT-5500-12T | | MIT-6000-12T | |
| | Max. Wirkleistung $P_{E\max}$ [W]: <i>Max. active power</i> $P_{E\max}$ [W]: | 5500 | | 6000 | |
| | Bemessungsspannung <i>Rated voltage</i> | 230/400, 3L/N/PE | | | |
| Messzeitraum: Measurement period: | Von 2024-12-16 bis 2025-03-19 <i>From 2024-12-16 to 2025-03-19</i> | | | | |
| Schnelle Spannungsänderungen Rapid voltage changes | | | | | |
| Modell: <i>Model:</i> MIT-6000-12T | | | | | |
| Einschalten ohne Vorgabe (zum Primärenergieträger): Connection without provisions (regarding the primary energy carrier): | $k_i = 0.25$ | | | | |

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| Ungünstigster Fall beim Umschalten der Generatorstufen: <i>Most adverse case when switching between generator levels:</i> | N/A |
| Einschalten bei Nennbedingungen (des Primärenergieträgers): <i>Connection at nominal conditions (of the primary energy carrier):</i> | $k_i = 0.74$ |
| Ausschalten bei Bemessungsleistung: <i>Disconnection at rated power:</i> | $k_i = 0.76$ |
| Schlechtester Wert aller Schaltvorgänge: <i>Worst value of all switching operations:</i> | $K_{imax} = 0.76$ |
| Flicker: <i>Flicker:</i> | Netzimpedanzwinkel Ψ_k <i>Network impedance angle Ψ_k</i> |
| | Anlagenflickerbeiwert c_ψ <i>Initial flicker factor c_ψ</i> |

Oberschwingungen**Harmonics MIT-6000-12T**

| P/Pn [%] | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Order | I [%] |
| 2 | 0.183 | 0.334 | 0.319 | 0.312 | 0.304 | 0.297 | 0.294 | 0.308 | 0.330 | 0.363 | 0.291 |
| 3 | 0.022 | 0.050 | 0.054 | 0.057 | 0.064 | 0.075 | 0.082 | 0.083 | 0.085 | 0.086 | 0.239 |
| 4 | 0.121 | 0.146 | 0.206 | 0.211 | 0.205 | 0.192 | 0.179 | 0.165 | 0.147 | 0.144 | 0.061 |
| 5 | 0.493 | 0.489 | 0.435 | 0.390 | 0.336 | 0.306 | 0.292 | 0.314 | 0.365 | 0.431 | 0.331 |
| 6 | 0.014 | 0.016 | 0.015 | 0.016 | 0.017 | 0.021 | 0.026 | 0.035 | 0.048 | 0.057 | 0.034 |
| 7 | 0.173 | 0.166 | 0.401 | 0.407 | 0.374 | 0.324 | 0.258 | 0.184 | 0.118 | 0.072 | 0.169 |
| 8 | 0.037 | 0.044 | 0.028 | 0.050 | 0.058 | 0.073 | 0.072 | 0.067 | 0.067 | 0.075 | 0.060 |
| 9 | 0.013 | 0.028 | 0.033 | 0.033 | 0.028 | 0.027 | 0.025 | 0.026 | 0.027 | 0.033 | 0.043 |
| 10 | 0.015 | 0.029 | 0.029 | 0.027 | 0.029 | 0.035 | 0.041 | 0.042 | 0.060 | 0.051 | 0.066 |
| 11 | 0.158 | 0.416 | 0.264 | 0.164 | 0.618 | 0.944 | 1.116 | 1.149 | 1.061 | 0.889 | 0.566 |
| 12 | 0.010 | 0.011 | 0.014 | 0.017 | 0.019 | 0.027 | 0.032 | 0.033 | 0.045 | 0.036 | 0.025 |
| 13 | 0.128 | 0.067 | 0.603 | 0.446 | 0.109 | 0.290 | 0.649 | 0.904 | 1.046 | 1.072 | 0.946 |
| 14 | 0.024 | 0.012 | 0.021 | 0.021 | 0.022 | 0.025 | 0.031 | 0.032 | 0.045 | 0.052 | 0.060 |
| 15 | 0.012 | 0.020 | 0.034 | 0.026 | 0.016 | 0.019 | 0.017 | 0.020 | 0.023 | 0.022 | 0.023 |
| 16 | 0.017 | 0.031 | 0.029 | 0.029 | 0.018 | 0.022 | 0.021 | 0.027 | 0.035 | 0.050 | 0.025 |
| 17 | 0.072 | 0.046 | 0.019 | 0.244 | 0.391 | 0.354 | 0.196 | 0.050 | 0.274 | 0.462 | 0.616 |
| 18 | 0.006 | 0.008 | 0.010 | 0.011 | 0.011 | 0.016 | 0.019 | 0.029 | 0.038 | 0.035 | 0.027 |
| 19 | 0.010 | 0.019 | 0.319 | 0.154 | 0.108 | 0.262 | 0.283 | 0.171 | 0.019 | 0.194 | 0.393 |
| 20 | 0.013 | 0.027 | 0.030 | 0.025 | 0.027 | 0.022 | 0.014 | 0.022 | 0.021 | 0.025 | 0.046 |
| 21 | 0.020 | 0.019 | 0.028 | 0.027 | 0.022 | 0.021 | 0.032 | 0.042 | 0.051 | 0.054 | 0.049 |
| 22 | 0.016 | 0.011 | 0.021 | 0.024 | 0.019 | 0.019 | 0.013 | 0.016 | 0.018 | 0.016 | 0.028 |
| 23 | 0.028 | 0.021 | 0.085 | 0.218 | 0.214 | 0.066 | 0.100 | 0.187 | 0.195 | 0.134 | 0.053 |
| 24 | 0.009 | 0.007 | 0.009 | 0.010 | 0.010 | 0.011 | 0.011 | 0.012 | 0.014 | 0.019 | 0.026 |
| 25 | 0.018 | 0.047 | 0.122 | 0.041 | 0.187 | 0.169 | 0.061 | 0.122 | 0.202 | 0.213 | 0.122 |
| 26 | 0.011 | 0.012 | 0.012 | 0.016 | 0.022 | 0.017 | 0.013 | 0.016 | 0.013 | 0.017 | 0.019 |
| 27 | 0.015 | 0.016 | 0.013 | 0.009 | 0.012 | 0.019 | 0.024 | 0.025 | 0.023 | 0.022 | 0.026 |
| 28 | 0.008 | 0.014 | 0.010 | 0.013 | 0.013 | 0.016 | 0.018 | 0.019 | 0.017 | 0.015 | 0.020 |
| 29 | 0.026 | 0.025 | 0.065 | 0.113 | 0.039 | 0.076 | 0.112 | 0.064 | 0.081 | 0.145 | 0.166 |

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|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 30 | 0.006 | 0.007 | 0.009 | 0.009 | 0.008 | 0.010 | 0.011 | 0.014 | 0.019 | 0.024 | 0.021 |
| 31 | 0.016 | 0.042 | 0.078 | 0.038 | 0.080 | 0.022 | 0.112 | 0.129 | 0.076 | 0.042 | 0.092 |
| 32 | 0.007 | 0.011 | 0.008 | 0.008 | 0.010 | 0.009 | 0.012 | 0.012 | 0.013 | 0.022 | 0.023 |
| 33 | 0.010 | 0.014 | 0.006 | 0.008 | 0.011 | 0.014 | 0.015 | 0.019 | 0.023 | 0.024 | 0.023 |
| 34 | 0.005 | 0.007 | 0.008 | 0.006 | 0.008 | 0.009 | 0.010 | 0.014 | 0.015 | 0.018 | 0.016 |
| 35 | 0.013 | 0.016 | 0.043 | 0.058 | 0.027 | 0.055 | 0.016 | 0.055 | 0.072 | 0.036 | 0.053 |
| 36 | 0.004 | 0.005 | 0.006 | 0.006 | 0.007 | 0.008 | 0.009 | 0.010 | 0.012 | 0.017 | 0.016 |
| 37 | 0.016 | 0.021 | 0.023 | 0.040 | 0.039 | 0.050 | 0.066 | 0.020 | 0.059 | 0.077 | 0.050 |
| 38 | 0.005 | 0.006 | 0.006 | 0.008 | 0.007 | 0.008 | 0.009 | 0.009 | 0.013 | 0.013 | 0.013 |
| 39 | 0.005 | 0.006 | 0.009 | 0.007 | 0.008 | 0.009 | 0.011 | 0.014 | 0.015 | 0.016 | 0.019 |
| 40 | 0.004 | 0.005 | 0.005 | 0.006 | 0.006 | 0.007 | 0.008 | 0.009 | 0.012 | 0.015 | 0.015 |

Zwischenharmonische
Inter-harmonics

| P/Pn [%] | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| f [Hz] | I [%] |
| 75 | 0.039 | 0.049 | 0.069 | 0.081 | 0.096 | 0.113 | 0.131 | 0.153 | 0.170 | 0.188 | 0.204 |
| 125 | 0.027 | 0.041 | 0.054 | 0.060 | 0.058 | 0.062 | 0.067 | 0.073 | 0.079 | 0.079 | 0.102 |
| 175 | 0.029 | 0.043 | 0.054 | 0.056 | 0.060 | 0.063 | 0.066 | 0.071 | 0.075 | 0.079 | 0.096 |
| 225 | 0.025 | 0.038 | 0.051 | 0.054 | 0.055 | 0.059 | 0.062 | 0.067 | 0.070 | 0.077 | 0.088 |
| 275 | 0.027 | 0.041 | 0.054 | 0.058 | 0.060 | 0.062 | 0.065 | 0.069 | 0.073 | 0.078 | 0.095 |
| 325 | 0.022 | 0.034 | 0.045 | 0.048 | 0.051 | 0.052 | 0.055 | 0.057 | 0.060 | 0.065 | 0.078 |
| 375 | 0.027 | 0.042 | 0.055 | 0.058 | 0.060 | 0.063 | 0.066 | 0.069 | 0.071 | 0.076 | 0.090 |
| 425 | 0.022 | 0.034 | 0.043 | 0.046 | 0.049 | 0.051 | 0.054 | 0.057 | 0.061 | 0.064 | 0.074 |
| 475 | 0.023 | 0.035 | 0.047 | 0.051 | 0.055 | 0.058 | 0.063 | 0.067 | 0.071 | 0.077 | 0.085 |
| 525 | 0.022 | 0.033 | 0.046 | 0.050 | 0.055 | 0.058 | 0.063 | 0.069 | 0.074 | 0.079 | 0.084 |
| 575 | 0.021 | 0.032 | 0.043 | 0.047 | 0.050 | 0.055 | 0.060 | 0.065 | 0.068 | 0.076 | 0.077 |
| 625 | 0.020 | 0.030 | 0.039 | 0.047 | 0.048 | 0.052 | 0.057 | 0.063 | 0.068 | 0.076 | 0.076 |
| 675 | 0.020 | 0.029 | 0.037 | 0.041 | 0.043 | 0.047 | 0.052 | 0.056 | 0.061 | 0.067 | 0.071 |
| 725 | 0.020 | 0.029 | 0.038 | 0.046 | 0.047 | 0.051 | 0.056 | 0.060 | 0.065 | 0.072 | 0.073 |
| 775 | 0.019 | 0.028 | 0.037 | 0.040 | 0.044 | 0.048 | 0.053 | 0.056 | 0.061 | 0.068 | 0.069 |
| 825 | 0.019 | 0.026 | 0.035 | 0.039 | 0.043 | 0.047 | 0.052 | 0.056 | 0.062 | 0.070 | 0.072 |
| 875 | 0.018 | 0.025 | 0.033 | 0.037 | 0.041 | 0.045 | 0.048 | 0.052 | 0.057 | 0.066 | 0.066 |

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|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 925 | 0.018 | 0.025 | 0.032 | 0.035 | 0.038 | 0.042 | 0.046 | 0.049 | 0.053 | 0.060 | 0.064 |
| 975 | 0.018 | 0.024 | 0.031 | 0.034 | 0.037 | 0.041 | 0.044 | 0.048 | 0.052 | 0.059 | 0.062 |
| 1025 | 0.018 | 0.024 | 0.030 | 0.034 | 0.037 | 0.040 | 0.044 | 0.048 | 0.052 | 0.059 | 0.061 |
| 1075 | 0.018 | 0.023 | 0.030 | 0.033 | 0.036 | 0.040 | 0.044 | 0.049 | 0.054 | 0.061 | 0.064 |
| 1125 | 0.018 | 0.023 | 0.029 | 0.032 | 0.036 | 0.039 | 0.043 | 0.048 | 0.053 | 0.060 | 0.061 |
| 1175 | 0.017 | 0.023 | 0.028 | 0.031 | 0.034 | 0.037 | 0.041 | 0.046 | 0.051 | 0.059 | 0.061 |
| 1225 | 0.017 | 0.022 | 0.028 | 0.031 | 0.034 | 0.038 | 0.042 | 0.047 | 0.054 | 0.063 | 0.064 |
| 1275 | 0.017 | 0.022 | 0.029 | 0.031 | 0.034 | 0.037 | 0.041 | 0.046 | 0.052 | 0.060 | 0.063 |
| 1325 | 0.017 | 0.022 | 0.027 | 0.030 | 0.033 | 0.037 | 0.041 | 0.047 | 0.053 | 0.063 | 0.065 |
| 1375 | 0.016 | 0.021 | 0.027 | 0.030 | 0.032 | 0.036 | 0.040 | 0.044 | 0.050 | 0.061 | 0.062 |
| 1425 | 0.016 | 0.021 | 0.026 | 0.029 | 0.032 | 0.035 | 0.039 | 0.045 | 0.050 | 0.060 | 0.062 |
| 1475 | 0.016 | 0.021 | 0.025 | 0.027 | 0.030 | 0.034 | 0.037 | 0.042 | 0.047 | 0.058 | 0.060 |
| 1525 | 0.016 | 0.020 | 0.024 | 0.026 | 0.029 | 0.032 | 0.035 | 0.040 | 0.045 | 0.054 | 0.057 |
| 1575 | 0.016 | 0.019 | 0.023 | 0.026 | 0.027 | 0.030 | 0.034 | 0.039 | 0.043 | 0.051 | 0.054 |
| 1625 | 0.015 | 0.019 | 0.022 | 0.024 | 0.026 | 0.029 | 0.032 | 0.036 | 0.040 | 0.048 | 0.051 |
| 1675 | 0.015 | 0.019 | 0.022 | 0.024 | 0.026 | 0.028 | 0.032 | 0.036 | 0.041 | 0.049 | 0.050 |
| 1725 | 0.015 | 0.018 | 0.022 | 0.024 | 0.026 | 0.028 | 0.031 | 0.035 | 0.040 | 0.047 | 0.050 |
| 1775 | 0.015 | 0.018 | 0.021 | 0.024 | 0.026 | 0.028 | 0.031 | 0.035 | 0.041 | 0.049 | 0.051 |
| 1825 | 0.015 | 0.018 | 0.021 | 0.023 | 0.025 | 0.027 | 0.030 | 0.034 | 0.039 | 0.047 | 0.048 |
| 1875 | 0.015 | 0.018 | 0.020 | 0.022 | 0.024 | 0.026 | 0.029 | 0.033 | 0.038 | 0.046 | 0.047 |
| 1925 | 0.015 | 0.018 | 0.019 | 0.021 | 0.022 | 0.024 | 0.026 | 0.030 | 0.034 | 0.041 | 0.043 |
| 1975 | 0.015 | 0.018 | 0.019 | 0.020 | 0.021 | 0.023 | 0.025 | 0.028 | 0.033 | 0.039 | 0.041 |

Höhere Frequenzen
Higher frequencies

| P/Pn [%] | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Freq. [kHz] | I [%] |
| 2.1 | 0.037 | 0.042 | 0.054 | 0.053 | 0.057 | 0.067 | 0.065 | 0.086 | 0.077 | 0.103 | 0.112 |
| 2.3 | 0.048 | 0.049 | 0.037 | 0.035 | 0.048 | 0.042 | 0.050 | 0.050 | 0.067 | 0.072 | 0.070 |
| 2.5 | 0.049 | 0.051 | 0.031 | 0.031 | 0.040 | 0.036 | 0.043 | 0.048 | 0.049 | 0.057 | 0.061 |
| 2.7 | 0.038 | 0.038 | 0.027 | 0.024 | 0.039 | 0.030 | 0.032 | 0.045 | 0.042 | 0.048 | 0.055 |
| 2.9 | 0.028 | 0.028 | 0.023 | 0.022 | 0.025 | 0.025 | 0.026 | 0.031 | 0.035 | 0.038 | 0.043 |
| 3.1 | 0.020 | 0.020 | 0.019 | 0.019 | 0.026 | 0.025 | 0.026 | 0.028 | 0.030 | 0.039 | 0.034 |

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|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 3.3 | 0.016 | 0.018 | 0.020 | 0.018 | 0.024 | 0.020 | 0.024 | 0.025 | 0.027 | 0.032 | 0.031 |
| 3.5 | 0.015 | 0.018 | 0.016 | 0.016 | 0.021 | 0.018 | 0.019 | 0.020 | 0.021 | 0.026 | 0.025 |
| 3.7 | 0.015 | 0.015 | 0.015 | 0.014 | 0.015 | 0.016 | 0.021 | 0.020 | 0.020 | 0.023 | 0.023 |
| 3.9 | 0.016 | 0.019 | 0.016 | 0.015 | 0.019 | 0.020 | 0.024 | 0.023 | 0.024 | 0.025 | 0.024 |
| 4.1 | 0.013 | 0.016 | 0.015 | 0.016 | 0.019 | 0.018 | 0.022 | 0.019 | 0.019 | 0.020 | 0.021 |
| 4.3 | 0.012 | 0.014 | 0.012 | 0.014 | 0.016 | 0.018 | 0.016 | 0.020 | 0.021 | 0.020 | 0.018 |
| 4.5 | 0.014 | 0.016 | 0.012 | 0.017 | 0.025 | 0.027 | 0.035 | 0.036 | 0.029 | 0.028 | 0.024 |
| 4.7 | 0.010 | 0.013 | 0.010 | 0.013 | 0.016 | 0.023 | 0.038 | 0.037 | 0.029 | 0.025 | 0.021 |
| 4.9 | 0.011 | 0.013 | 0.010 | 0.010 | 0.011 | 0.012 | 0.015 | 0.031 | 0.037 | 0.031 | 0.027 |
| 5.1 | 0.011 | 0.014 | 0.011 | 0.013 | 0.013 | 0.014 | 0.019 | 0.035 | 0.047 | 0.054 | 0.046 |
| 5.3 | 0.010 | 0.013 | 0.009 | 0.010 | 0.010 | 0.011 | 0.013 | 0.016 | 0.028 | 0.049 | 0.045 |
| 5.5 | 0.011 | 0.013 | 0.010 | 0.009 | 0.009 | 0.010 | 0.010 | 0.012 | 0.016 | 0.023 | 0.033 |
| 5.7 | 0.011 | 0.012 | 0.010 | 0.012 | 0.011 | 0.011 | 0.012 | 0.013 | 0.017 | 0.027 | 0.037 |
| 5.9 | 0.010 | 0.011 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.013 | 0.017 | 0.021 |
| 6.1 | 0.009 | 0.011 | 0.009 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.012 | 0.013 | 0.015 |
| 6.3 | 0.009 | 0.010 | 0.008 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.012 | 0.014 | 0.015 |
| 6.5 | 0.008 | 0.011 | 0.008 | 0.009 | 0.010 | 0.010 | 0.012 | 0.011 | 0.012 | 0.013 | 0.013 |
| 6.7 | 0.008 | 0.011 | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 |
| 6.9 | 0.007 | 0.010 | 0.008 | 0.008 | 0.009 | 0.008 | 0.009 | 0.009 | 0.010 | 0.011 | 0.011 |
| 7.1 | 0.007 | 0.010 | 0.007 | 0.007 | 0.008 | 0.008 | 0.009 | 0.009 | 0.009 | 0.010 | 0.010 |
| 7.3 | 0.007 | 0.010 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 | 0.010 |
| 7.5 | 0.008 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.012 |
| 7.7 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.009 | 0.009 |
| 7.9 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 |
| 8.1 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 | 0.008 | 0.008 | 0.009 |
| 8.3 | 0.006 | 0.007 | 0.006 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.007 | 0.008 | 0.008 |
| 8.5 | 0.008 | 0.007 | 0.007 | 0.006 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 | 0.010 |
| 8.7 | 0.006 | 0.006 | 0.008 | 0.010 | 0.007 | 0.006 | 0.006 | 0.006 | 0.006 | 0.006 | 0.007 |
| 8.9 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 | 0.007 | 0.007 | 0.006 | 0.006 |

Hinweis: Der Normalisierungsstrom beträgt 8.70Aa.c.

Note: The normalization current is 8.70Aa.c.

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