

Unit Certificate (Einheitenzertifikat)

Certificate No. (Zertifikats-Nr.): CN-PV-220027

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Anhand der durchgeführten Tests wurde festgestellt, dass die Probe (n) des nachstehenden Produkts zum Zeitpunkt der Durchführung der Tests den Anforderungen der angegebenen Spezifikation (n) / Norm (en) entsprachen. Dies bedeutet nicht, dass Intertek die Herstellung (en) überwacht oder kontrolliert hat. Der Hersteller stellt sicher, dass der Herstellungsprozess die Übereinstimmung der Produktionseinheiten mit den in diesem Zertifikat genannten geprüften Produkten sicherstellt.

Applicant:
(Antragsteller)

Shenzhen Growatt New Energy Co.,Ltd.
4-13/F,Building A,Sino-German(Europe) Industrial Park,Hangcheng Ave,Bao'an District,Shenzhen,China

Product:
(Produkt)

PV Grid inverter
(Umrichter)

Model:
(Modell)

MID 10KTL3-X, MID 12KTL3-X, MID 15KTL3-X, MID 17KTL3-X,
MID 20KTL3-X, MID 22KTL3-X, MID 25KTL3-X

Max. active power P_{Emax}:
(max. Wirkleistung P_{Emax})

9.951KW; 11.966KW; 14.988KW; 16.956KW; 19.953KW;
21.976KW; 24.963KW;

Max. apparent power S_{Emax}:
(max. Scheinleistung S_{Emax})

11.043KVA; 13.258KVA; 16.620KVA; 18.818KVA; 22.162KVA;
24.305KVA; 27.578KVA;

Rated voltage:
(Bemessungsspannung)

3W/N/PE 230Vac/400Vac

Rated current (AC) I_r:
(Bemessungsstrom (AC) I_r)

16.0A; 19.3A; 24.2A; 27.4A; 31.9A; 35.5A; 40.2A;

Initial short-circuit AC current I_k:
(Anfangs-Kurzschlusswechselstrom I_k)

16.0A; 19.3A; 24.2A; 27.4A; 31.9A; 35.5A; 40.2A;

Tested according to:
(Geprüft nach)

VDE-AR-N 4105: 2018-11 "Generators connected to the low-voltage distribution network"

Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network
DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Network integration of power generation systems – Low voltage"

Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network

220118063GZU-001

Test Report No.:
(Prüfbericht-Nr.)

Intertek Testing Services Ltd. Shanghai

Certificate Issuing Office:
(Stelle des ausgestellten Zertifikats)

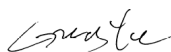
West Area, 2nd Floor, No. 707, Zhangyang Road
China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China

Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012

The above designated power generation unit meets the requirements of VDE-AR-N 4105: 2018.

Die oben bezeichnete Erzeugungseinheit erfüllt die Anforderungen der VDE-AR-N 4105: 2018.

See Appendix page for detailed technical information (Detaillierte technische Informationen siehe Anhang).



Signature (Unterschrift)

Certification Manager: Grady Ye

Date (Datum): 25 January 2022



PRD N° 306B

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Zertifikatsnummer): CN-PV-220027

| Model | MID 10KTL3-X | MID 12KTL3-X | MID 15KTL3-X | MID 17KTL3-X |
|-----------------------------|----------------------------|-----------------|-----------------|-----------------|
| Max. DC input voltage | 1000Vdc | | | |
| Voltage range | 160-1000Vdc | | | |
| Max. input current | 2x27A | | | |
| Max. PV Isc | 2x33.8A | | | |
| Nominal mains voltage | 3W/N/PE 230Vac/400Vac | | | |
| Max. output current | 16.0A | 19.3A | 24.2A | 27.4A |
| Nominal frequency | 50Hz | | | |
| Power factor | 0.8 Leading to 0.8 Lagging | | | |
| Max. apparent power | 11.1KVA | 13.3KVA | 16.6KVA | 18.8KVA |
| Ingress protection | IP65 | | | |
| Protection class | Class I | | | |
| Operating temperature range | -25°C - +60°C | | | |
| FW-Version | TJ1.0 | | | |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model | MID 20KTL3-X | MID 22KTL3-X | MID 25KTL3-X |
|-----------------------------|----------------------------|--------------|--------------|
| Max. DC input voltage | 1000Vdc | | |
| Voltage range | 160-1000Vdc | | |
| Max. input current | 2x27A | | 27/40.5A |
| Max. PV Isc | 2x33.8A | | 33.8/50.7A |
| Nominal mains voltage | 3W/N/PE 230Vac/400Vac | | |
| Max. output current | 31.9A | 35.5A | 40.2A |
| Nominal frequency | 50Hz | | |
| Power factor | 0.8 Leading to 0.8 Lagging | | |
| Max. apparent power | 22.0KVA | 24.4KVA | 27.7KVA |
| Ingress protection | IP65 | | |
| Protection class | Class I | | |
| Operating temperature range | -25°C - +60°C | | |
| FW-Version | TJ1.0 | | |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Zertifikatsnummer): CN-PV-220027

E.5 of (von) VDE-AR-N 4105:2018-11

Test report "Network interactions" for power generation units with an input current > 75 A
 Prüfbericht „Netzurückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A

| | | | | | |
|--|---|--|--------------|--------------|------|
| Extract of the test report for power generation units (Auszug aus dem Prüfbericht für Erzeugungseinheiten) "Determination of electrical properties" („Bestimmung der elektrischen Eigenschaften“) | | No. (Nr.): 220118063GZU-001 (consecutive no. (laufende Nr.)) | | | |
| System manufacturer: (Anlagenhersteller) | Shenzhen Growatt New Energy Co., Ltd 4-13/F, Building A, Sino-German(Europe) Industrial Park, Hangcheng Ave, Bao'an District, Shenzhen, China | | | | |
| Manufacturer indications: (Herstellerangaben) | System type (Anlagenart) (BHKW, PV-WR, ...) | PV | | | |
| | Max. active power P _E max (maximale Wirkleistung P _E max) | MID 10KTL3-X | MID 12KTL3-X | MID 15KTL3-X | |
| | | 9.951KW | 11.9668KW | 14.988KW | |
| | | MID 17KTL3-X | MID 20KTL3-X | MID 22KTL3-X | |
| | | 16.956KW | 19.953KW | 21.976KW | |
| | | MID 25KTL3-X | -- | -- | |
| 24.963KW | -- | -- | | | |
| | Rated voltage (Bemessungsspannung) | 3W/N/PE 230Vac/400Vac | | | |
| Measurement period (Messzeitraum) | From (vom) YYYY-MM-DD to (bis) YYYY-MM-DD | 2020-May-11 to 2020-Jul-05 | | | |
| Rapid voltage changes (Schnelle Spannungsänderungen) | | k _i = 0.776 | | | |
| Connection without provisions (regarding the primary energy carrier) (Einschalten ohne Vorgabe (zum Primärenergieträger)) | | k _i = 0.126 | | | |
| Most adverse case when switching between generator levels (Ungünstigster Fall beim Umschalten der Generatorstufen) | | k _i = 0.126 | | | |
| Connection at nominal conditions (of the primary energy carrier) (Einschalten bei Nennbedingungen (des Primärenergieträgers)) | | k _i = 0.112 | | | |
| Disconnection at rated power (Ausschalten bei Bemessungsleistung) | | k _i = 0.776 | | | |
| Worst value of all switching operations (Schlechtester Wert aller Schaltvorgänge) | | k _{imax} = 0.776 | | | |
| Flicker | Network impedance angle Ψ_k (Netzimpedanzwinkel Ψ_k) | 30° | 50° | 70° | 85° |
| | Initial flicker factor C _ψ (Anlagenflickerbeiwert C _ψ) | 3.80 | 3.55 | 3.27 | 3.10 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model: MID 10KTL3-X | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2 | 0.2878 | 0.2685 | 0.3768 | 0.3851 | 0.3982 | 0.3816 | 0.4527 | 0.4127 | 0.3858 | 0.4044 |
| 3 | 0.0393 | 0.0345 | 0.0373 | 0.0414 | 0.0504 | 0.0317 | 0.1008 | 0.0538 | 0.0407 | 0.0393 |
| 4 | 0.3837 | 0.5100 | 0.4983 | 0.4976 | 0.4976 | 0.4817 | 0.4817 | 0.4852 | 0.4810 | 0.5197 |
| 5 | 1.2899 | 1.5983 | 1.9220 | 1.8565 | 1.7184 | 1.5894 | 1.3368 | 1.1856 | 1.0545 | 0.9807 |
| 6 | 0.0159 | 0.0262 | 0.0248 | 0.0317 | 0.0414 | 0.0317 | 0.0545 | 0.0414 | 0.0221 | 0.0290 |
| 7 | 1.1636 | 0.9413 | 1.4224 | 1.5045 | 1.4603 | 1.3920 | 1.2478 | 1.1304 | 1.0076 | 0.9213 |
| 8 | 0.2478 | 0.2084 | 0.2671 | 0.2643 | 0.2622 | 0.2567 | 0.2498 | 0.2443 | 0.2277 | 0.2340 |
| 9 | 0.0386 | 0.0345 | 0.0552 | 0.0545 | 0.0600 | 0.0607 | 0.0718 | 0.0594 | 0.0559 | 0.0580 |
| 10 | 0.1180 | 0.0759 | 0.0621 | 0.0573 | 0.0566 | 0.0559 | 0.0690 | 0.0587 | 0.0559 | 0.0794 |
| 11 | 0.8606 | 0.6584 | 0.6563 | 0.5887 | 0.6487 | 0.7212 | 0.8302 | 0.7971 | 0.7184 | 0.6391 |
| 12 | 0.0152 | 0.0228 | 0.0317 | 0.0283 | 0.0345 | 0.0269 | 0.0435 | 0.0311 | 0.0235 | 0.0235 |
| 13 | 0.6825 | 0.7992 | 0.6190 | 0.4500 | 0.4203 | 0.4872 | 0.6246 | 0.6591 | 0.6211 | 0.5804 |
| 14 | 0.0580 | 0.0373 | 0.0566 | 0.0635 | 0.0683 | 0.0883 | 0.1153 | 0.0849 | 0.0573 | 0.0738 |
| 15 | 0.0304 | 0.0380 | 0.0531 | 0.0490 | 0.0531 | 0.0545 | 0.0594 | 0.0504 | 0.0421 | 0.0407 |
| 16 | 0.1159 | 0.1166 | 0.1159 | 0.0973 | 0.1042 | 0.1139 | 0.1291 | 0.1028 | 0.0828 | 0.0821 |
| 17 | 0.4465 | 0.5369 | 0.6322 | 0.5935 | 0.5010 | 0.4120 | 0.3513 | 0.4300 | 0.4727 | 0.5052 |
| 18 | 0.0145 | 0.0193 | 0.0352 | 0.0311 | 0.0386 | 0.0324 | 0.0345 | 0.0317 | 0.0290 | 0.0359 |
| 19 | 0.5231 | 0.4424 | 0.5935 | 0.6618 | 0.6080 | 0.5197 | 0.3927 | 0.4369 | 0.4624 | 0.4865 |
| 20 | 0.1090 | 0.1008 | 0.1021 | 0.1146 | 0.1077 | 0.0959 | 0.0932 | 0.1187 | 0.1318 | 0.1235 |
| 21 | 0.0235 | 0.0186 | 0.0483 | 0.0504 | 0.0511 | 0.0524 | 0.0552 | 0.0538 | 0.0449 | 0.0380 |
| 22 | 0.0462 | 0.0490 | 0.0449 | 0.0573 | 0.0607 | 0.0600 | 0.0718 | 0.0676 | 0.0621 | 0.0683 |
| 23 | 0.4720 | 0.4941 | 0.3761 | 0.3616 | 0.4286 | 0.4127 | 0.2547 | 0.2250 | 0.2974 | 0.3837 |
| 24 | 0.0255 | 0.0242 | 0.0317 | 0.0338 | 0.0338 | 0.0324 | 0.0380 | 0.0331 | 0.0304 | 0.0331 |
| 25 | 0.3741 | 0.4527 | 0.3589 | 0.2926 | 0.3216 | 0.3630 | 0.3430 | 0.3306 | 0.3761 | 0.4769 |
| 26 | 0.0331 | 0.0421 | 0.0821 | 0.0628 | 0.0642 | 0.0621 | 0.0566 | 0.0973 | 0.1277 | 0.1401 |
| 27 | 0.0317 | 0.0380 | 0.0386 | 0.0469 | 0.0511 | 0.0518 | 0.0566 | 0.0580 | 0.0476 | 0.0469 |
| 28 | 0.0462 | 0.0952 | 0.0545 | 0.0483 | 0.0552 | 0.0531 | 0.0649 | 0.0939 | 0.1256 | 0.1435 |
| 29 | 0.3161 | 0.3823 | 0.4500 | 0.4300 | 0.3368 | 0.3333 | 0.4120 | 0.3844 | 0.3837 | 0.4762 |
| 30 | 0.0207 | 0.0283 | 0.0345 | 0.0345 | 0.0373 | 0.0393 | 0.0386 | 0.0359 | 0.0324 | 0.0435 |
| 31 | 0.4017 | 0.4617 | 0.3851 | 0.4424 | 0.4196 | 0.3872 | 0.4092 | 0.3920 | 0.3803 | 0.4237 |
| 32 | 0.0807 | 0.0311 | 0.1222 | 0.1256 | 0.1111 | 0.1118 | 0.1256 | 0.1159 | 0.1636 | 0.2167 |
| 33 | 0.0283 | 0.0235 | 0.0324 | 0.0421 | 0.0428 | 0.0442 | 0.0421 | 0.0428 | 0.0373 | 0.0331 |
| 34 | 0.0421 | 0.0870 | 0.0994 | 0.0987 | 0.1021 | 0.0952 | 0.0952 | 0.0890 | 0.0932 | 0.0945 |
| 35 | 0.4141 | 0.3402 | 0.3188 | 0.3106 | 0.3637 | 0.3568 | 0.3202 | 0.3078 | 0.3168 | 0.3506 |
| 36 | 0.0193 | 0.0235 | 0.0304 | 0.0276 | 0.0324 | 0.0283 | 0.0297 | 0.0283 | 0.0214 | 0.0276 |
| 37 | 0.3954 | 0.2602 | 0.3478 | 0.2588 | 0.2954 | 0.3099 | 0.2353 | 0.2022 | 0.1705 | 0.1125 |
| 38 | 0.0483 | 0.0386 | 0.0518 | 0.0711 | 0.0676 | 0.0635 | 0.0587 | 0.0511 | 0.0642 | 0.0656 |
| 39 | 0.0373 | 0.0352 | 0.0407 | 0.0317 | 0.0311 | 0.0345 | 0.0338 | 0.0311 | 0.0276 | 0.0248 |
| 40 | 0.0801 | 0.0870 | 0.1339 | 0.0952 | 0.0918 | 0.0932 | 0.0918 | 0.0980 | 0.1077 | 0.1380 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 75 | 0.0499 | 0.0472 | 0.0887 | 0.1265 | 0.0483 | 0.2560 | 0.1441 | 0.0445 | 0.0453 | 0.0496 |
| 125 | 0.0181 | 0.0207 | 0.0257 | 0.0341 | 0.0222 | 0.0739 | 0.0419 | 0.0209 | 0.0187 | 0.0196 |
| 175 | 0.0169 | 0.0189 | 0.0220 | 0.0266 | 0.0196 | 0.0503 | 0.0317 | 0.0183 | 0.0165 | 0.0164 |
| 225 | 0.0219 | 0.0194 | 0.0222 | 0.0355 | 0.0234 | 0.0484 | 0.0299 | 0.0205 | 0.0156 | 0.0170 |
| 275 | 0.0205 | 0.0180 | 0.0204 | 0.0309 | 0.0206 | 0.0418 | 0.0294 | 0.0182 | 0.0156 | 0.0169 |
| 325 | 0.0198 | 0.0194 | 0.0207 | 0.0323 | 0.0233 | 0.0403 | 0.0337 | 0.0186 | 0.0163 | 0.0184 |
| 375 | 0.0150 | 0.0222 | 0.0199 | 0.0294 | 0.0206 | 0.0361 | 0.0263 | 0.0176 | 0.0136 | 0.0157 |
| 425 | 0.0121 | 0.0180 | 0.0196 | 0.0227 | 0.0201 | 0.0310 | 0.0223 | 0.0188 | 0.0148 | 0.0156 |
| 475 | 0.0123 | 0.0170 | 0.0191 | 0.0212 | 0.0194 | 0.0286 | 0.0218 | 0.0179 | 0.0140 | 0.0152 |
| 525 | 0.0161 | 0.0205 | 0.0211 | 0.0269 | 0.0225 | 0.0349 | 0.0287 | 0.0200 | 0.0157 | 0.0177 |
| 575 | 0.0155 | 0.0305 | 0.0212 | 0.0266 | 0.0228 | 0.0329 | 0.0282 | 0.0193 | 0.0175 | 0.0186 |
| 625 | 0.0189 | 0.0203 | 0.0206 | 0.0264 | 0.0227 | 0.0397 | 0.0283 | 0.0191 | 0.0166 | 0.0181 |
| 675 | 0.0145 | 0.0273 | 0.0211 | 0.0232 | 0.0222 | 0.0319 | 0.0243 | 0.0187 | 0.0149 | 0.0159 |
| 725 | 0.0130 | 0.0212 | 0.0198 | 0.0216 | 0.0211 | 0.0258 | 0.0226 | 0.0202 | 0.0157 | 0.0172 |
| 775 | 0.0134 | 0.0206 | 0.0197 | 0.0211 | 0.0205 | 0.0273 | 0.0225 | 0.0196 | 0.0156 | 0.0162 |
| 825 | 0.0152 | 0.0276 | 0.0218 | 0.0282 | 0.0234 | 0.0333 | 0.0230 | 0.0196 | 0.0161 | 0.0187 |
| 875 | 0.0157 | 0.1383 | 0.0221 | 0.0248 | 0.0236 | 0.0264 | 0.0235 | 0.0195 | 0.0178 | 0.0193 |
| 925 | 0.0156 | 0.0256 | 0.0221 | 0.0291 | 0.0248 | 0.0355 | 0.0237 | 0.0200 | 0.0171 | 0.0190 |
| 975 | 0.0142 | 0.1400 | 0.0215 | 0.0260 | 0.0240 | 0.0273 | 0.0219 | 0.0194 | 0.0156 | 0.0172 |
| 1025 | 0.0137 | 0.0222 | 0.0213 | 0.0241 | 0.0233 | 0.0249 | 0.0217 | 0.0209 | 0.0164 | 0.0181 |
| 1075 | 0.0133 | 0.0206 | 0.0219 | 0.0232 | 0.0236 | 0.0260 | 0.0226 | 0.0213 | 0.0170 | 0.0179 |
| 1125 | 0.0152 | 0.0213 | 0.0236 | 0.0303 | 0.0276 | 0.0332 | 0.0266 | 0.0222 | 0.0183 | 0.0203 |
| 1175 | 0.0156 | 0.0267 | 0.0252 | 0.0277 | 0.0290 | 0.0308 | 0.0287 | 0.0231 | 0.0214 | 0.0240 |
| 1225 | 0.0170 | 0.0248 | 0.0259 | 0.0307 | 0.0305 | 0.0380 | 0.0330 | 0.0270 | 0.0242 | 0.0254 |
| 1275 | 0.0157 | 0.0275 | 0.0258 | 0.0277 | 0.0290 | 0.0307 | 0.0288 | 0.0260 | 0.0213 | 0.0227 |
| 1325 | 0.0205 | 0.0265 | 0.0293 | 0.0306 | 0.0293 | 0.0319 | 0.0334 | 0.0266 | 0.0261 | 0.0320 |
| 1375 | 0.0210 | 0.0307 | 0.0305 | 0.0352 | 0.0357 | 0.0411 | 0.0381 | 0.0430 | 0.0368 | 0.0354 |
| 1425 | 0.0171 | 0.0244 | 0.0262 | 0.0298 | 0.0301 | 0.0378 | 0.0385 | 0.0297 | 0.0260 | 0.0266 |
| 1475 | 0.0156 | 0.0245 | 0.0242 | 0.0256 | 0.0276 | 0.0285 | 0.0306 | 0.0278 | 0.0265 | 0.0289 |
| 1525 | 0.0201 | 0.0225 | 0.0224 | 0.0258 | 0.0268 | 0.0356 | 0.0398 | 0.0268 | 0.0266 | 0.0301 |
| 1575 | 0.0160 | 0.0229 | 0.0232 | 0.0261 | 0.0259 | 0.0297 | 0.0300 | 0.0271 | 0.0240 | 0.0281 |
| 1625 | 0.0146 | 0.0211 | 0.0214 | 0.0236 | 0.0236 | 0.0255 | 0.0264 | 0.0256 | 0.0242 | 0.0279 |
| 1675 | 0.0158 | 0.0203 | 0.0207 | 0.0218 | 0.0217 | 0.0238 | 0.0241 | 0.0221 | 0.0222 | 0.0272 |
| 1725 | 0.0196 | 0.0212 | 0.0206 | 0.0240 | 0.0210 | 0.0281 | 0.0313 | 0.0190 | 0.0190 | 0.0236 |
| 1775 | 0.0149 | 0.0206 | 0.0196 | 0.0205 | 0.0196 | 0.0202 | 0.0193 | 0.0167 | 0.0164 | 0.0199 |
| 1825 | 0.0194 | 0.0202 | 0.0188 | 0.0207 | 0.0185 | 0.0239 | 0.0251 | 0.0155 | 0.0136 | 0.0163 |
| 1875 | 0.0143 | 0.0188 | 0.0180 | 0.0184 | 0.0174 | 0.0186 | 0.0159 | 0.0135 | 0.0110 | 0.0120 |
| 1925 | 0.0134 | 0.0160 | 0.0166 | 0.0172 | 0.0159 | 0.0156 | 0.0143 | 0.0131 | 0.0102 | 0.0107 |
| 1975 | 0.0152 | 0.0166 | 0.0165 | 0.0161 | 0.0155 | 0.0173 | 0.0165 | 0.0124 | 0.0095 | 0.0101 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2.1 | 0.0079 | 0.0103 | 0.0111 | 0.0126 | 0.0106 | 0.0107 | 0.0097 | 0.0077 | 0.0094 | 0.0085 |
| 2.3 | 0.0246 | 0.0366 | 0.0392 | 0.0316 | 0.0259 | 0.0311 | 0.0323 | 0.0314 | 0.0377 | 0.0401 |
| 2.5 | 0.0105 | 0.0355 | 0.0300 | 0.0267 | 0.0234 | 0.0222 | 0.0252 | 0.0250 | 0.0264 | 0.0325 |
| 2.7 | 0.0094 | 0.0109 | 0.0105 | 0.0111 | 0.0109 | 0.0110 | 0.0092 | 0.0077 | 0.0102 | 0.0101 |
| 2.9 | 0.0184 | 0.0361 | 0.0354 | 0.0286 | 0.0263 | 0.0243 | 0.0184 | 0.0267 | 0.0310 | 0.0319 |
| 3.1 | 0.0122 | 0.0233 | 0.0263 | 0.0235 | 0.0178 | 0.0224 | 0.0158 | 0.0166 | 0.0236 | 0.0243 |
| 3.3 | 0.0086 | 0.0069 | 0.0070 | 0.0083 | 0.0078 | 0.0074 | 0.0071 | 0.0064 | 0.0069 | 0.0069 |
| 3.5 | 0.0152 | 0.0259 | 0.0278 | 0.0218 | 0.0231 | 0.0116 | 0.0180 | 0.0164 | 0.0199 | 0.0192 |
| 3.7 | 0.0129 | 0.0170 | 0.0224 | 0.0219 | 0.0198 | 0.0159 | 0.0165 | 0.0185 | 0.0171 | 0.0162 |
| 3.9 | 0.0082 | 0.0069 | 0.0067 | 0.0080 | 0.0075 | 0.0084 | 0.0063 | 0.0065 | 0.0089 | 0.0075 |
| 4.1 | 0.0178 | 0.0185 | 0.0259 | 0.0234 | 0.0225 | 0.0214 | 0.0114 | 0.0162 | 0.0156 | 0.0135 |
| 4.3 | 0.0130 | 0.0207 | 0.0243 | 0.0238 | 0.0244 | 0.0184 | 0.0172 | 0.0190 | 0.0220 | 0.0196 |
| 4.5 | 0.0075 | 0.0067 | 0.0069 | 0.0072 | 0.0065 | 0.0076 | 0.0062 | 0.0067 | 0.0059 | 0.0064 |
| 4.7 | 0.0147 | 0.0209 | 0.0209 | 0.0200 | 0.0193 | 0.0184 | 0.0170 | 0.0146 | 0.0210 | 0.0184 |
| 4.9 | 0.0097 | 0.0171 | 0.0192 | 0.0188 | 0.0207 | 0.0180 | 0.0164 | 0.0175 | 0.0188 | 0.0165 |
| 5.1 | 0.0050 | 0.0050 | 0.0050 | 0.0052 | 0.0048 | 0.0057 | 0.0050 | 0.0052 | 0.0046 | 0.0048 |
| 5.3 | 0.0072 | 0.0068 | 0.0082 | 0.0083 | 0.0088 | 0.0087 | 0.0068 | 0.0078 | 0.0079 | 0.0077 |
| 5.5 | 0.0048 | 0.0114 | 0.0106 | 0.0099 | 0.0103 | 0.0094 | 0.0088 | 0.0095 | 0.0095 | 0.0091 |
| 5.7 | 0.0038 | 0.0045 | 0.0044 | 0.0045 | 0.0042 | 0.0049 | 0.0045 | 0.0042 | 0.0043 | 0.0052 |
| 5.9 | 0.0464 | 0.0507 | 0.0479 | 0.0448 | 0.0476 | 0.0408 | 0.0416 | 0.0427 | 0.0428 | 0.0456 |
| 6.1 | 0.0261 | 0.0269 | 0.0260 | 0.0242 | 0.0280 | 0.0239 | 0.0257 | 0.0266 | 0.0268 | 0.0288 |
| 6.3 | 0.0038 | 0.0043 | 0.0043 | 0.0040 | 0.0037 | 0.0039 | 0.0039 | 0.0038 | 0.0038 | 0.0045 |
| 6.5 | 0.0046 | 0.0036 | 0.0043 | 0.0040 | 0.0051 | 0.0054 | 0.0055 | 0.0054 | 0.0056 | 0.0059 |
| 6.7 | 0.0036 | 0.0043 | 0.0038 | 0.0036 | 0.0039 | 0.0039 | 0.0040 | 0.0035 | 0.0040 | 0.0035 |
| 6.9 | 0.0032 | 0.0038 | 0.0035 | 0.0038 | 0.0038 | 0.0040 | 0.0041 | 0.0035 | 0.0030 | 0.0036 |
| 7.1 | 0.0033 | 0.0034 | 0.0039 | 0.0033 | 0.0029 | 0.0037 | 0.0031 | 0.0038 | 0.0036 | 0.0034 |
| 7.3 | 0.0034 | 0.0034 | 0.0035 | 0.0034 | 0.0028 | 0.0031 | 0.0033 | 0.0028 | 0.0032 | 0.0031 |
| 7.5 | 0.0028 | 0.0030 | 0.0028 | 0.0030 | 0.0031 | 0.0032 | 0.0029 | 0.0029 | 0.0028 | 0.0031 |
| 7.7 | 0.0031 | 0.0030 | 0.0029 | 0.0029 | 0.0027 | 0.0034 | 0.0029 | 0.0030 | 0.0031 | 0.0028 |
| 7.9 | 0.0028 | 0.0028 | 0.0028 | 0.0028 | 0.0027 | 0.0030 | 0.0028 | 0.0029 | 0.0029 | 0.0028 |
| 8.1 | 0.0029 | 0.0044 | 0.0030 | 0.0031 | 0.0042 | 0.0040 | 0.0038 | 0.0029 | 0.0030 | 0.0041 |
| 8.3 | 0.0029 | 0.0028 | 0.0032 | 0.0033 | 0.0029 | 0.0032 | 0.0030 | 0.0037 | 0.0041 | 0.0031 |
| 8.5 | 0.0028 | 0.0029 | 0.0029 | 0.0030 | 0.0029 | 0.0030 | 0.0030 | 0.0030 | 0.0034 | 0.0037 |
| 8.7 | 0.0028 | 0.0043 | 0.0028 | 0.0030 | 0.0040 | 0.0040 | 0.0035 | 0.0030 | 0.0032 | 0.0039 |
| 8.9 | 0.0029 | 0.0028 | 0.0032 | 0.0031 | 0.0029 | 0.0032 | 0.0028 | 0.0034 | 0.0028 | 0.0030 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model: MID 12KTL3-X | | | | | | | | | | |
|--------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/Pn [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2 | 0.2398 | 0.2599 | 0.3203 | 0.3560 | 0.3393 | 0.3306 | 0.3657 | 0.5262 | 0.3910 | 0.3692 |
| 3 | 0.0345 | 0.0265 | 0.0311 | 0.0558 | 0.0374 | 0.0247 | 0.0615 | 0.1288 | 0.0558 | 0.0265 |
| 4 | 0.3145 | 0.4163 | 0.4158 | 0.4238 | 0.4227 | 0.4002 | 0.4244 | 0.4376 | 0.4600 | 0.4554 |
| 5 | 1.0730 | 1.4002 | 1.6216 | 1.4692 | 1.3623 | 1.1323 | 0.9753 | 0.8235 | 0.7740 | 0.7441 |
| 6 | 0.0144 | 0.0201 | 0.0236 | 0.0391 | 0.0328 | 0.0247 | 0.0397 | 0.0610 | 0.0362 | 0.0230 |
| 7 | 0.9701 | 0.8557 | 1.2444 | 1.2294 | 1.1788 | 1.0529 | 0.9316 | 0.7878 | 0.7194 | 0.6694 |
| 8 | 0.2076 | 0.1869 | 0.2237 | 0.2214 | 0.2174 | 0.2128 | 0.2133 | 0.2076 | 0.2185 | 0.2340 |
| 9 | 0.0328 | 0.0374 | 0.0431 | 0.0518 | 0.0506 | 0.0500 | 0.0541 | 0.0684 | 0.0483 | 0.0391 |
| 10 | 0.1018 | 0.0598 | 0.0518 | 0.0535 | 0.0472 | 0.0518 | 0.0552 | 0.0627 | 0.0707 | 0.0684 |
| 11 | 0.7142 | 0.6636 | 0.4583 | 0.5227 | 0.5814 | 0.6964 | 0.6607 | 0.5572 | 0.4807 | 0.4209 |
| 12 | 0.0127 | 0.0173 | 0.0230 | 0.0265 | 0.0270 | 0.0219 | 0.0293 | 0.0380 | 0.0288 | 0.0224 |
| 13 | 0.5653 | 0.6003 | 0.4451 | 0.3502 | 0.3824 | 0.5325 | 0.5451 | 0.4796 | 0.4497 | 0.4031 |
| 14 | 0.0512 | 0.0472 | 0.0546 | 0.0535 | 0.0633 | 0.0891 | 0.0633 | 0.0546 | 0.0684 | 0.0782 |
| 15 | 0.0247 | 0.0316 | 0.0408 | 0.0460 | 0.0483 | 0.0495 | 0.0454 | 0.0489 | 0.0408 | 0.0385 |
| 16 | 0.0966 | 0.0903 | 0.0851 | 0.0886 | 0.0926 | 0.1110 | 0.0845 | 0.0805 | 0.0817 | 0.0920 |
| 17 | 0.3772 | 0.4330 | 0.5256 | 0.4428 | 0.3640 | 0.3030 | 0.3611 | 0.3882 | 0.4066 | 0.3813 |
| 18 | 0.0121 | 0.0173 | 0.0242 | 0.0288 | 0.0265 | 0.0219 | 0.0299 | 0.0518 | 0.0334 | 0.0276 |
| 19 | 0.4376 | 0.3979 | 0.5377 | 0.5296 | 0.4560 | 0.3445 | 0.3646 | 0.3755 | 0.3928 | 0.3508 |
| 20 | 0.0909 | 0.0753 | 0.0978 | 0.0909 | 0.0857 | 0.0702 | 0.1018 | 0.1323 | 0.1012 | 0.1029 |
| 21 | 0.0207 | 0.0190 | 0.0385 | 0.0449 | 0.0460 | 0.0449 | 0.0489 | 0.0506 | 0.0380 | 0.0334 |
| 22 | 0.0403 | 0.0380 | 0.0506 | 0.0483 | 0.0466 | 0.0472 | 0.0460 | 0.0523 | 0.0592 | 0.0667 |
| 23 | 0.3939 | 0.4692 | 0.2703 | 0.3433 | 0.3577 | 0.2260 | 0.1961 | 0.2639 | 0.3324 | 0.3151 |
| 24 | 0.0207 | 0.0236 | 0.0247 | 0.0288 | 0.0282 | 0.0270 | 0.0282 | 0.0345 | 0.0357 | 0.0311 |
| 25 | 0.3099 | 0.2961 | 0.2944 | 0.2478 | 0.2984 | 0.3013 | 0.2754 | 0.3306 | 0.4181 | 0.4221 |
| 26 | 0.0328 | 0.0834 | 0.0575 | 0.0558 | 0.0529 | 0.0443 | 0.0794 | 0.1116 | 0.0949 | 0.0920 |
| 27 | 0.0219 | 0.0236 | 0.0357 | 0.0351 | 0.0403 | 0.0529 | 0.0466 | 0.0500 | 0.0529 | 0.0454 |
| 28 | 0.0408 | 0.0776 | 0.0385 | 0.0414 | 0.0374 | 0.0426 | 0.0696 | 0.0972 | 0.0972 | 0.0966 |
| 29 | 0.2639 | 0.3364 | 0.3767 | 0.2904 | 0.2645 | 0.3606 | 0.3237 | 0.3249 | 0.4227 | 0.4508 |
| 30 | 0.0173 | 0.0265 | 0.0270 | 0.0316 | 0.0282 | 0.0299 | 0.0316 | 0.0351 | 0.0437 | 0.0426 |
| 31 | 0.3335 | 0.3692 | 0.3341 | 0.3376 | 0.3237 | 0.3565 | 0.3353 | 0.3036 | 0.3698 | 0.3560 |
| 32 | 0.0684 | 0.0742 | 0.1058 | 0.0880 | 0.0903 | 0.1058 | 0.0983 | 0.1374 | 0.1587 | 0.1380 |
| 33 | 0.0247 | 0.0213 | 0.0282 | 0.0345 | 0.0397 | 0.0408 | 0.0391 | 0.0380 | 0.0426 | 0.0443 |
| 34 | 0.0391 | 0.1075 | 0.0845 | 0.0771 | 0.0736 | 0.0707 | 0.0679 | 0.0713 | 0.0535 | 0.0431 |
| 35 | 0.3445 | 0.3186 | 0.2467 | 0.2680 | 0.2984 | 0.2789 | 0.2760 | 0.2530 | 0.3042 | 0.3122 |
| 36 | 0.0155 | 0.0213 | 0.0224 | 0.0242 | 0.0236 | 0.0224 | 0.0242 | 0.0230 | 0.0276 | 0.0265 |
| 37 | 0.3295 | 0.2335 | 0.2582 | 0.2099 | 0.2634 | 0.2122 | 0.1811 | 0.1328 | 0.0840 | 0.0822 |
| 38 | 0.0403 | 0.0633 | 0.0466 | 0.0535 | 0.0454 | 0.0460 | 0.0426 | 0.0506 | 0.0351 | 0.0276 |
| 39 | 0.0305 | 0.0328 | 0.0276 | 0.0282 | 0.0299 | 0.0293 | 0.0288 | 0.0311 | 0.0230 | 0.0213 |
| 40 | 0.0684 | 0.1047 | 0.1001 | 0.0707 | 0.0748 | 0.0742 | 0.0851 | 0.0897 | 0.1127 | 0.1121 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 75 | 0.0812 | 0.0584 | 0.1928 | 0.1086 | 0.0428 | 0.2226 | 0.6036 | 0.2462 | 0.0515 | 0.1263 |
| 125 | 0.0206 | 0.0218 | 0.0524 | 0.0391 | 0.0235 | 0.0619 | 0.1275 | 0.0580 | 0.0212 | 0.0346 |
| 175 | 0.0160 | 0.0185 | 0.0402 | 0.0303 | 0.0212 | 0.0423 | 0.0797 | 0.0375 | 0.0192 | 0.0261 |
| 225 | 0.0178 | 0.0211 | 0.0493 | 0.0355 | 0.0258 | 0.0430 | 0.0621 | 0.0341 | 0.0205 | 0.0216 |
| 275 | 0.0168 | 0.0192 | 0.0375 | 0.0310 | 0.0221 | 0.0360 | 0.0628 | 0.0313 | 0.0201 | 0.0199 |
| 325 | 0.0198 | 0.0197 | 0.0431 | 0.0326 | 0.0241 | 0.0373 | 0.0509 | 0.0315 | 0.0215 | 0.0187 |
| 375 | 0.0189 | 0.0180 | 0.0390 | 0.0297 | 0.0216 | 0.0343 | 0.0521 | 0.0258 | 0.0204 | 0.0181 |
| 425 | 0.0162 | 0.0179 | 0.0266 | 0.0259 | 0.0233 | 0.0293 | 0.0397 | 0.0243 | 0.0185 | 0.0156 |
| 475 | 0.0161 | 0.0174 | 0.0244 | 0.0248 | 0.0228 | 0.0271 | 0.0362 | 0.0223 | 0.0180 | 0.0150 |
| 525 | 0.0182 | 0.0201 | 0.0334 | 0.0291 | 0.0241 | 0.0348 | 0.0385 | 0.0269 | 0.0209 | 0.0162 |
| 575 | 0.0172 | 0.0192 | 0.0290 | 0.0285 | 0.0231 | 0.0315 | 0.0440 | 0.0266 | 0.0213 | 0.0177 |
| 625 | 0.0171 | 0.0201 | 0.0288 | 0.0281 | 0.0242 | 0.0317 | 0.0375 | 0.0277 | 0.0209 | 0.0155 |
| 675 | 0.0166 | 0.0193 | 0.0265 | 0.0268 | 0.0255 | 0.0315 | 0.0381 | 0.0252 | 0.0207 | 0.0175 |
| 725 | 0.0156 | 0.0183 | 0.0238 | 0.0250 | 0.0253 | 0.0265 | 0.0304 | 0.0213 | 0.0200 | 0.0148 |
| 775 | 0.0164 | 0.0181 | 0.0235 | 0.0240 | 0.0245 | 0.0264 | 0.0290 | 0.0213 | 0.0192 | 0.0144 |
| 825 | 0.0178 | 0.0214 | 0.0304 | 0.0291 | 0.0264 | 0.0302 | 0.0330 | 0.0263 | 0.0225 | 0.0171 |
| 875 | 0.0177 | 0.0215 | 0.0269 | 0.0271 | 0.0243 | 0.0283 | 0.0324 | 0.0249 | 0.0228 | 0.0185 |
| 925 | 0.0178 | 0.0216 | 0.0304 | 0.0309 | 0.0252 | 0.0307 | 0.0346 | 0.0259 | 0.0230 | 0.0169 |
| 975 | 0.0187 | 0.0206 | 0.0276 | 0.0290 | 0.0252 | 0.0297 | 0.0297 | 0.0259 | 0.0224 | 0.0190 |
| 1025 | 0.0183 | 0.0199 | 0.0262 | 0.0282 | 0.0262 | 0.0259 | 0.0308 | 0.0239 | 0.0227 | 0.0155 |
| 1075 | 0.0183 | 0.0204 | 0.0248 | 0.0280 | 0.0273 | 0.0265 | 0.0286 | 0.0224 | 0.0215 | 0.0154 |
| 1125 | 0.0201 | 0.0225 | 0.0369 | 0.0338 | 0.0309 | 0.0315 | 0.0319 | 0.0267 | 0.0254 | 0.0189 |
| 1175 | 0.0213 | 0.0246 | 0.0306 | 0.0328 | 0.0331 | 0.0332 | 0.0351 | 0.0293 | 0.0286 | 0.0214 |
| 1225 | 0.0207 | 0.0244 | 0.0348 | 0.0339 | 0.0325 | 0.0350 | 0.0395 | 0.0331 | 0.0306 | 0.0237 |
| 1275 | 0.0247 | 0.0242 | 0.0347 | 0.0372 | 0.0330 | 0.0393 | 0.0366 | 0.0289 | 0.0307 | 0.0250 |
| 1325 | 0.0257 | 0.0296 | 0.0356 | 0.0381 | 0.0413 | 0.0392 | 0.0474 | 0.0337 | 0.0365 | 0.0302 |
| 1375 | 0.0208 | 0.0256 | 0.0260 | 0.0285 | 0.0355 | 0.0312 | 0.0357 | 0.0437 | 0.0422 | 0.0330 |
| 1425 | 0.0207 | 0.0227 | 0.0386 | 0.0315 | 0.0312 | 0.0343 | 0.0347 | 0.0329 | 0.0351 | 0.0257 |
| 1475 | 0.0212 | 0.0230 | 0.0283 | 0.0282 | 0.0290 | 0.0327 | 0.0372 | 0.0337 | 0.0360 | 0.0245 |
| 1525 | 0.0217 | 0.0213 | 0.0419 | 0.0300 | 0.0292 | 0.0326 | 0.0407 | 0.0340 | 0.0374 | 0.0298 |
| 1575 | 0.0222 | 0.0214 | 0.0297 | 0.0291 | 0.0304 | 0.0328 | 0.0333 | 0.0325 | 0.0374 | 0.0310 |
| 1625 | 0.0219 | 0.0204 | 0.0248 | 0.0273 | 0.0287 | 0.0285 | 0.0365 | 0.0304 | 0.0349 | 0.0246 |
| 1675 | 0.0220 | 0.0189 | 0.0250 | 0.0257 | 0.0259 | 0.0261 | 0.0303 | 0.0288 | 0.0332 | 0.0250 |
| 1725 | 0.0217 | 0.0193 | 0.0368 | 0.0266 | 0.0235 | 0.0259 | 0.0265 | 0.0268 | 0.0326 | 0.0303 |
| 1775 | 0.0206 | 0.0186 | 0.0210 | 0.0222 | 0.0215 | 0.0225 | 0.0232 | 0.0218 | 0.0277 | 0.0260 |
| 1825 | 0.0206 | 0.0180 | 0.0325 | 0.0237 | 0.0190 | 0.0212 | 0.0208 | 0.0172 | 0.0199 | 0.0170 |
| 1875 | 0.0204 | 0.0171 | 0.0212 | 0.0211 | 0.0182 | 0.0175 | 0.0174 | 0.0138 | 0.0147 | 0.0132 |
| 1925 | 0.0187 | 0.0156 | 0.0179 | 0.0191 | 0.0174 | 0.0153 | 0.0166 | 0.0127 | 0.0130 | 0.0112 |
| 1975 | 0.0199 | 0.0157 | 0.0203 | 0.0188 | 0.0173 | 0.0159 | 0.0163 | 0.0133 | 0.0118 | 0.0100 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2.1 | 0.0095 | 0.0105 | 0.0119 | 0.0113 | 0.0106 | 0.0103 | 0.0102 | 0.0094 | 0.0082 | 0.0058 |
| 2.3 | 0.0489 | 0.0426 | 0.0302 | 0.0251 | 0.0270 | 0.0307 | 0.0277 | 0.0342 | 0.0301 | 0.0154 |
| 2.5 | 0.0229 | 0.0285 | 0.0253 | 0.0207 | 0.0173 | 0.0221 | 0.0209 | 0.0257 | 0.0249 | 0.0142 |
| 2.7 | 0.0080 | 0.0102 | 0.0108 | 0.0094 | 0.0098 | 0.0094 | 0.0091 | 0.0108 | 0.0088 | 0.0085 |
| 2.9 | 0.0348 | 0.0355 | 0.0252 | 0.0254 | 0.0239 | 0.0176 | 0.0250 | 0.0249 | 0.0287 | 0.0140 |
| 3.1 | 0.0149 | 0.0262 | 0.0209 | 0.0176 | 0.0215 | 0.0130 | 0.0168 | 0.0170 | 0.0214 | 0.0130 |
| 3.3 | 0.0067 | 0.0067 | 0.0073 | 0.0077 | 0.0065 | 0.0073 | 0.0079 | 0.0079 | 0.0060 | 0.0052 |
| 3.5 | 0.0236 | 0.0249 | 0.0207 | 0.0198 | 0.0101 | 0.0171 | 0.0128 | 0.0167 | 0.0208 | 0.0090 |
| 3.7 | 0.0126 | 0.0201 | 0.0197 | 0.0200 | 0.0186 | 0.0162 | 0.0156 | 0.0149 | 0.0152 | 0.0140 |
| 3.9 | 0.0074 | 0.0060 | 0.0065 | 0.0077 | 0.0066 | 0.0062 | 0.0077 | 0.0085 | 0.0061 | 0.0059 |
| 4.1 | 0.0217 | 0.0219 | 0.0215 | 0.0197 | 0.0192 | 0.0112 | 0.0145 | 0.0125 | 0.0126 | 0.0125 |
| 4.3 | 0.0156 | 0.0229 | 0.0218 | 0.0202 | 0.0154 | 0.0152 | 0.0196 | 0.0182 | 0.0169 | 0.0136 |
| 4.5 | 0.0084 | 0.0073 | 0.0074 | 0.0066 | 0.0059 | 0.0075 | 0.0076 | 0.0064 | 0.0066 | 0.0045 |
| 4.7 | 0.0141 | 0.0174 | 0.0187 | 0.0169 | 0.0180 | 0.0148 | 0.0128 | 0.0157 | 0.0122 | 0.0066 |
| 4.9 | 0.0151 | 0.0201 | 0.0163 | 0.0175 | 0.0180 | 0.0151 | 0.0144 | 0.0155 | 0.0106 | 0.0062 |
| 5.1 | 0.0055 | 0.0051 | 0.0052 | 0.0054 | 0.0044 | 0.0052 | 0.0060 | 0.0048 | 0.0053 | 0.0034 |
| 5.3 | 0.0059 | 0.0084 | 0.0080 | 0.0081 | 0.0087 | 0.0068 | 0.0080 | 0.0073 | 0.0060 | 0.0045 |
| 5.5 | 0.0095 | 0.0110 | 0.0091 | 0.0087 | 0.0081 | 0.0079 | 0.0100 | 0.0085 | 0.0078 | 0.0056 |
| 5.7 | 0.0043 | 0.0044 | 0.0044 | 0.0044 | 0.0043 | 0.0049 | 0.0055 | 0.0054 | 0.0045 | 0.0042 |
| 5.9 | 0.0530 | 0.0469 | 0.0393 | 0.0416 | 0.0449 | 0.0405 | 0.0391 | 0.0398 | 0.0432 | 0.0461 |
| 6.1 | 0.0302 | 0.0255 | 0.0223 | 0.0238 | 0.0261 | 0.0255 | 0.0249 | 0.0265 | 0.0276 | 0.0284 |
| 6.3 | 0.0038 | 0.0045 | 0.0051 | 0.0040 | 0.0037 | 0.0039 | 0.0048 | 0.0039 | 0.0044 | 0.0037 |
| 6.5 | 0.0039 | 0.0042 | 0.0044 | 0.0048 | 0.0051 | 0.0055 | 0.0060 | 0.0051 | 0.0053 | 0.0051 |
| 6.7 | 0.0039 | 0.0040 | 0.0050 | 0.0041 | 0.0036 | 0.0039 | 0.0046 | 0.0041 | 0.0044 | 0.0039 |
| 6.9 | 0.0033 | 0.0037 | 0.0038 | 0.0035 | 0.0033 | 0.0037 | 0.0042 | 0.0034 | 0.0033 | 0.0032 |
| 7.1 | 0.0035 | 0.0032 | 0.0040 | 0.0035 | 0.0032 | 0.0036 | 0.0038 | 0.0033 | 0.0032 | 0.0030 |
| 7.3 | 0.0031 | 0.0031 | 0.0030 | 0.0032 | 0.0032 | 0.0032 | 0.0035 | 0.0032 | 0.0032 | 0.0030 |
| 7.5 | 0.0030 | 0.0027 | 0.0030 | 0.0032 | 0.0029 | 0.0031 | 0.0034 | 0.0031 | 0.0027 | 0.0028 |
| 7.7 | 0.0029 | 0.0029 | 0.0026 | 0.0035 | 0.0028 | 0.0033 | 0.0033 | 0.0030 | 0.0027 | 0.0032 |
| 7.9 | 0.0028 | 0.0032 | 0.0028 | 0.0029 | 0.0030 | 0.0032 | 0.0031 | 0.0031 | 0.0029 | 0.0027 |
| 8.1 | 0.0027 | 0.0031 | 0.0042 | 0.0031 | 0.0029 | 0.0030 | 0.0036 | 0.0051 | 0.0026 | 0.0027 |
| 8.3 | 0.0028 | 0.0031 | 0.0030 | 0.0056 | 0.0030 | 0.0032 | 0.0042 | 0.0029 | 0.0027 | 0.0044 |
| 8.5 | 0.0027 | 0.0046 | 0.0032 | 0.0031 | 0.0029 | 0.0034 | 0.0032 | 0.0035 | 0.0042 | 0.0029 |
| 8.7 | 0.0027 | 0.0027 | 0.0041 | 0.0028 | 0.0029 | 0.0029 | 0.0036 | 0.0054 | 0.0029 | 0.0026 |
| 8.9 | 0.0029 | 0.0032 | 0.0026 | 0.0037 | 0.0032 | 0.0031 | 0.0035 | 0.0029 | 0.0029 | 0.0033 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model: MID 15KTL3-X | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2 | 0.1863 | 0.2438 | 0.2562 | 0.2939 | 0.2443 | 0.2751 | 0.3574 | 0.3947 | 0.2976 | 0.4627 |
| 3 | 0.0253 | 0.0575 | 0.0276 | 0.0465 | 0.0207 | 0.0202 | 0.0768 | 0.0961 | 0.0492 | 0.1256 |
| 4 | 0.2686 | 0.3220 | 0.3289 | 0.3335 | 0.3119 | 0.3316 | 0.3597 | 0.3845 | 0.3832 | 0.4742 |
| 5 | 0.8634 | 1.2153 | 1.2295 | 1.1109 | 0.8988 | 0.7516 | 0.6513 | 0.6104 | 0.5902 | 0.6532 |
| 6 | 0.0101 | 0.0276 | 0.0202 | 0.0336 | 0.0212 | 0.0175 | 0.0400 | 0.0451 | 0.0212 | 0.0488 |
| 7 | 0.7525 | 0.7797 | 0.9982 | 0.9476 | 0.8408 | 0.7208 | 0.6132 | 0.5396 | 0.5386 | 0.5690 |
| 8 | 0.1647 | 0.1651 | 0.1771 | 0.1776 | 0.1651 | 0.1656 | 0.1684 | 0.1955 | 0.1881 | 0.2328 |
| 9 | 0.0258 | 0.0405 | 0.0336 | 0.0405 | 0.0382 | 0.0359 | 0.0478 | 0.0488 | 0.0350 | 0.0616 |
| 10 | 0.0731 | 0.0327 | 0.0373 | 0.0414 | 0.0396 | 0.0336 | 0.0570 | 0.0718 | 0.0547 | 0.0676 |
| 11 | 0.5787 | 0.5409 | 0.3896 | 0.4480 | 0.5566 | 0.5138 | 0.4218 | 0.3385 | 0.3068 | 0.2838 |
| 12 | 0.0110 | 0.0363 | 0.0175 | 0.0253 | 0.0198 | 0.0179 | 0.0276 | 0.0308 | 0.0248 | 0.0345 |
| 13 | 0.4535 | 0.4807 | 0.2999 | 0.2879 | 0.4273 | 0.4347 | 0.3836 | 0.3238 | 0.3270 | 0.3178 |
| 14 | 0.0377 | 0.0690 | 0.0455 | 0.0488 | 0.0750 | 0.0428 | 0.0506 | 0.0741 | 0.0589 | 0.0603 |
| 15 | 0.0221 | 0.0865 | 0.0317 | 0.0386 | 0.0368 | 0.0327 | 0.0340 | 0.0391 | 0.0414 | 0.0566 |
| 16 | 0.0777 | 0.0846 | 0.0616 | 0.0718 | 0.0879 | 0.0630 | 0.0598 | 0.0759 | 0.0833 | 0.0920 |
| 17 | 0.2893 | 0.3068 | 0.3947 | 0.3045 | 0.2424 | 0.2990 | 0.3316 | 0.2944 | 0.2810 | 0.2728 |
| 18 | 0.0101 | 0.0589 | 0.0198 | 0.0276 | 0.0189 | 0.0225 | 0.0331 | 0.0290 | 0.0193 | 0.0235 |
| 19 | 0.3519 | 0.3661 | 0.4402 | 0.3776 | 0.2751 | 0.3004 | 0.3183 | 0.2760 | 0.2557 | 0.2314 |
| 20 | 0.0750 | 0.0851 | 0.0782 | 0.0741 | 0.0593 | 0.0842 | 0.0846 | 0.0828 | 0.0759 | 0.0828 |
| 21 | 0.0161 | 0.0391 | 0.0322 | 0.0345 | 0.0336 | 0.0354 | 0.0313 | 0.0317 | 0.0354 | 0.0428 |
| 22 | 0.0281 | 0.0225 | 0.0391 | 0.0386 | 0.0437 | 0.0368 | 0.0446 | 0.0593 | 0.0478 | 0.0409 |
| 23 | 0.3146 | 0.3602 | 0.2383 | 0.2879 | 0.1780 | 0.1693 | 0.2484 | 0.2475 | 0.2139 | 0.1877 |
| 24 | 0.0175 | 0.0207 | 0.0207 | 0.0253 | 0.0239 | 0.0216 | 0.0299 | 0.0290 | 0.0281 | 0.0304 |
| 25 | 0.2502 | 0.1734 | 0.1941 | 0.2277 | 0.2415 | 0.2314 | 0.3068 | 0.3220 | 0.3119 | 0.2824 |
| 26 | 0.0262 | 0.0754 | 0.0483 | 0.0488 | 0.0414 | 0.0695 | 0.0911 | 0.0768 | 0.0524 | 0.0400 |
| 27 | 0.0175 | 0.0239 | 0.0253 | 0.0304 | 0.0336 | 0.0354 | 0.0327 | 0.0363 | 0.0368 | 0.0336 |
| 28 | 0.0386 | 0.0478 | 0.0313 | 0.0331 | 0.0368 | 0.0607 | 0.0883 | 0.0787 | 0.0603 | 0.0557 |
| 29 | 0.2024 | 0.3224 | 0.2875 | 0.2116 | 0.2866 | 0.2580 | 0.3045 | 0.3404 | 0.3367 | 0.2912 |
| 30 | 0.0138 | 0.0202 | 0.0225 | 0.0276 | 0.0253 | 0.0248 | 0.0336 | 0.0340 | 0.0248 | 0.0202 |
| 31 | 0.2677 | 0.2613 | 0.2953 | 0.2594 | 0.2852 | 0.2613 | 0.2723 | 0.2787 | 0.2065 | 0.1242 |
| 32 | 0.0529 | 0.0837 | 0.0846 | 0.0708 | 0.0879 | 0.0846 | 0.1366 | 0.1132 | 0.0768 | 0.0432 |
| 33 | 0.0198 | 0.0198 | 0.0267 | 0.0294 | 0.0290 | 0.0299 | 0.0281 | 0.0345 | 0.0276 | 0.0253 |
| 34 | 0.0290 | 0.0948 | 0.0672 | 0.0598 | 0.0639 | 0.0538 | 0.0580 | 0.0391 | 0.0258 | 0.0382 |
| 35 | 0.2728 | 0.2801 | 0.2047 | 0.2360 | 0.2208 | 0.2176 | 0.2208 | 0.2415 | 0.1845 | 0.0796 |
| 36 | 0.0129 | 0.0193 | 0.0179 | 0.0198 | 0.0179 | 0.0179 | 0.0221 | 0.0239 | 0.0189 | 0.0170 |
| 37 | 0.2631 | 0.2222 | 0.1734 | 0.2029 | 0.1679 | 0.1352 | 0.0731 | 0.0662 | 0.1099 | 0.1546 |
| 38 | 0.0340 | 0.0570 | 0.0478 | 0.0377 | 0.0405 | 0.0345 | 0.0405 | 0.0207 | 0.0474 | 0.0731 |
| 39 | 0.0258 | 0.0281 | 0.0193 | 0.0235 | 0.0225 | 0.0207 | 0.0184 | 0.0184 | 0.0216 | 0.0216 |
| 40 | 0.0570 | 0.1012 | 0.0649 | 0.0580 | 0.0630 | 0.0685 | 0.0846 | 0.0897 | 0.0819 | 0.0750 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 75 | 0.0524 | 0.0492 | 0.1744 | 0.0456 | 0.0456 | 0.3461 | 0.4464 | 0.1139 | 0.4486 | 0.6302 |
| 125 | 0.1537 | 0.0208 | 0.0536 | 0.0230 | 0.0225 | 0.0929 | 0.1167 | 0.0310 | 0.1170 | 0.1578 |
| 175 | 0.0375 | 0.0195 | 0.0396 | 0.0195 | 0.0200 | 0.0597 | 0.0706 | 0.0243 | 0.0762 | 0.0973 |
| 225 | 0.1504 | 0.0196 | 0.0434 | 0.0232 | 0.0230 | 0.0489 | 0.0555 | 0.0213 | 0.0609 | 0.0737 |
| 275 | 0.0378 | 0.0189 | 0.0418 | 0.0200 | 0.0206 | 0.0401 | 0.0531 | 0.0201 | 0.0439 | 0.0551 |
| 325 | 0.0315 | 0.0205 | 0.0464 | 0.0215 | 0.0224 | 0.0367 | 0.0472 | 0.0187 | 0.0412 | 0.0502 |
| 375 | 0.0364 | 0.0170 | 0.0379 | 0.0197 | 0.0198 | 0.0327 | 0.0388 | 0.0188 | 0.0355 | 0.0424 |
| 425 | 0.0343 | 0.0189 | 0.0292 | 0.0202 | 0.0208 | 0.0297 | 0.0354 | 0.0167 | 0.0315 | 0.0371 |
| 475 | 0.0317 | 0.0190 | 0.0269 | 0.0201 | 0.0196 | 0.0273 | 0.0331 | 0.0162 | 0.0292 | 0.0342 |
| 525 | 0.0320 | 0.0195 | 0.0353 | 0.0216 | 0.0228 | 0.0313 | 0.0374 | 0.0177 | 0.0291 | 0.0338 |
| 575 | 0.0423 | 0.0216 | 0.0335 | 0.0207 | 0.0223 | 0.0293 | 0.0358 | 0.0186 | 0.0266 | 0.0287 |
| 625 | 0.0273 | 0.0218 | 0.0328 | 0.0220 | 0.0230 | 0.0304 | 0.0399 | 0.0169 | 0.0261 | 0.0315 |
| 675 | 0.0478 | 0.0189 | 0.0295 | 0.0235 | 0.0221 | 0.0261 | 0.0313 | 0.0182 | 0.0242 | 0.0265 |
| 725 | 0.0586 | 0.0197 | 0.0252 | 0.0221 | 0.0222 | 0.0256 | 0.0287 | 0.0161 | 0.0218 | 0.0227 |
| 775 | 0.0740 | 0.0198 | 0.0268 | 0.0226 | 0.0222 | 0.0235 | 0.0276 | 0.0153 | 0.0201 | 0.0216 |
| 825 | 0.0703 | 0.0198 | 0.0319 | 0.0242 | 0.0235 | 0.0302 | 0.0395 | 0.0179 | 0.0243 | 0.0265 |
| 875 | 0.0858 | 0.0216 | 0.0301 | 0.0223 | 0.0239 | 0.0252 | 0.0321 | 0.0185 | 0.0230 | 0.0225 |
| 925 | 0.0584 | 0.0222 | 0.0345 | 0.0229 | 0.0244 | 0.0324 | 0.0387 | 0.0174 | 0.0247 | 0.0242 |
| 975 | 0.0540 | 0.0203 | 0.0305 | 0.0231 | 0.0236 | 0.0245 | 0.0292 | 0.0186 | 0.0223 | 0.0211 |
| 1025 | 0.0479 | 0.0211 | 0.0269 | 0.0239 | 0.0233 | 0.0242 | 0.0271 | 0.0166 | 0.0185 | 0.0184 |
| 1075 | 0.0294 | 0.0219 | 0.0281 | 0.0246 | 0.0241 | 0.0238 | 0.0263 | 0.0162 | 0.0182 | 0.0188 |
| 1125 | 0.0254 | 0.0232 | 0.0359 | 0.0296 | 0.0279 | 0.0326 | 0.0361 | 0.0202 | 0.0250 | 0.0236 |
| 1175 | 0.0277 | 0.0273 | 0.0328 | 0.0295 | 0.0305 | 0.0291 | 0.0326 | 0.0234 | 0.0251 | 0.0256 |
| 1225 | 0.0242 | 0.0264 | 0.0348 | 0.0296 | 0.0303 | 0.0375 | 0.0420 | 0.0221 | 0.0305 | 0.0305 |
| 1275 | 0.0253 | 0.0258 | 0.0350 | 0.0364 | 0.0350 | 0.0348 | 0.0385 | 0.0260 | 0.0288 | 0.0263 |
| 1325 | 0.0316 | 0.0388 | 0.0386 | 0.0345 | 0.0411 | 0.0377 | 0.0425 | 0.0356 | 0.0329 | 0.0348 |
| 1375 | 0.0236 | 0.0236 | 0.0286 | 0.0284 | 0.0306 | 0.0292 | 0.0321 | 0.0247 | 0.0233 | 0.0233 |
| 1425 | 0.0230 | 0.0229 | 0.0315 | 0.0278 | 0.0304 | 0.0388 | 0.0427 | 0.0258 | 0.0301 | 0.0263 |
| 1475 | 0.0228 | 0.0242 | 0.0272 | 0.0257 | 0.0302 | 0.0296 | 0.0377 | 0.0250 | 0.0208 | 0.0203 |
| 1525 | 0.0220 | 0.0236 | 0.0325 | 0.0262 | 0.0297 | 0.0377 | 0.0475 | 0.0279 | 0.0257 | 0.0194 |
| 1575 | 0.0228 | 0.0213 | 0.0276 | 0.0273 | 0.0297 | 0.0311 | 0.0386 | 0.0311 | 0.0251 | 0.0220 |
| 1625 | 0.0218 | 0.0216 | 0.0267 | 0.0260 | 0.0281 | 0.0283 | 0.0348 | 0.0267 | 0.0200 | 0.0175 |
| 1675 | 0.0213 | 0.0204 | 0.0244 | 0.0233 | 0.0249 | 0.0257 | 0.0342 | 0.0259 | 0.0202 | 0.0182 |
| 1725 | 0.0205 | 0.0188 | 0.0302 | 0.0217 | 0.0229 | 0.0290 | 0.0393 | 0.0299 | 0.0248 | 0.0187 |
| 1775 | 0.0205 | 0.0198 | 0.0208 | 0.0188 | 0.0199 | 0.0192 | 0.0289 | 0.0271 | 0.0215 | 0.0205 |
| 1825 | 0.0196 | 0.0188 | 0.0280 | 0.0176 | 0.0175 | 0.0190 | 0.0225 | 0.0183 | 0.0190 | 0.0224 |
| 1875 | 0.0188 | 0.0165 | 0.0202 | 0.0166 | 0.0161 | 0.0151 | 0.0172 | 0.0136 | 0.0158 | 0.0187 |
| 1925 | 0.0186 | 0.0169 | 0.0182 | 0.0158 | 0.0148 | 0.0136 | 0.0154 | 0.0120 | 0.0131 | 0.0140 |
| 1975 | 0.0189 | 0.0166 | 0.0190 | 0.0148 | 0.0142 | 0.0155 | 0.0158 | 0.0107 | 0.0119 | 0.0136 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2.1 | 0.0128 | 0.0108 | 0.0116 | 0.0112 | 0.0099 | 0.0103 | 0.0103 | 0.0061 | 0.0062 | 0.0070 |
| 2.3 | 0.0603 | 0.0399 | 0.0255 | 0.0310 | 0.0297 | 0.0332 | 0.0320 | 0.0172 | 0.0123 | 0.0154 |
| 2.5 | 0.0204 | 0.0301 | 0.0217 | 0.0212 | 0.0220 | 0.0231 | 0.0270 | 0.0152 | 0.0115 | 0.0168 |
| 2.7 | 0.0091 | 0.0097 | 0.0105 | 0.0092 | 0.0089 | 0.0102 | 0.0096 | 0.0081 | 0.0077 | 0.0089 |
| 2.9 | 0.0391 | 0.0373 | 0.0235 | 0.0262 | 0.0197 | 0.0265 | 0.0287 | 0.0156 | 0.0075 | 0.0097 |
| 3.1 | 0.0174 | 0.0266 | 0.0194 | 0.0246 | 0.0139 | 0.0194 | 0.0236 | 0.0143 | 0.0079 | 0.0072 |
| 3.3 | 0.0067 | 0.0084 | 0.0083 | 0.0071 | 0.0072 | 0.0080 | 0.0076 | 0.0053 | 0.0059 | 0.0064 |
| 3.5 | 0.0197 | 0.0284 | 0.0190 | 0.0114 | 0.0159 | 0.0168 | 0.0209 | 0.0100 | 0.0061 | 0.0101 |
| 3.7 | 0.0173 | 0.0218 | 0.0184 | 0.0179 | 0.0187 | 0.0154 | 0.0159 | 0.0137 | 0.0086 | 0.0078 |
| 3.9 | 0.0062 | 0.0074 | 0.0077 | 0.0070 | 0.0056 | 0.0083 | 0.0078 | 0.0057 | 0.0063 | 0.0063 |
| 4.1 | 0.0133 | 0.0281 | 0.0189 | 0.0215 | 0.0119 | 0.0139 | 0.0124 | 0.0133 | 0.0098 | 0.0073 |
| 4.3 | 0.0244 | 0.0241 | 0.0195 | 0.0188 | 0.0151 | 0.0192 | 0.0171 | 0.0145 | 0.0112 | 0.0066 |
| 4.5 | 0.0065 | 0.0070 | 0.0073 | 0.0064 | 0.0065 | 0.0068 | 0.0073 | 0.0044 | 0.0047 | 0.0063 |
| 4.7 | 0.0175 | 0.0217 | 0.0181 | 0.0191 | 0.0146 | 0.0175 | 0.0131 | 0.0073 | 0.0076 | 0.0074 |
| 4.9 | 0.0206 | 0.0198 | 0.0158 | 0.0194 | 0.0166 | 0.0152 | 0.0121 | 0.0063 | 0.0060 | 0.0066 |
| 5.1 | 0.0045 | 0.0050 | 0.0056 | 0.0051 | 0.0050 | 0.0055 | 0.0059 | 0.0035 | 0.0040 | 0.0044 |
| 5.3 | 0.0084 | 0.0084 | 0.0082 | 0.0089 | 0.0073 | 0.0078 | 0.0067 | 0.0047 | 0.0053 | 0.0060 |
| 5.5 | 0.0114 | 0.0100 | 0.0085 | 0.0096 | 0.0086 | 0.0089 | 0.0081 | 0.0048 | 0.0057 | 0.0061 |
| 5.7 | 0.0038 | 0.0049 | 0.0046 | 0.0042 | 0.0040 | 0.0051 | 0.0048 | 0.0039 | 0.0045 | 0.0048 |
| 5.9 | 0.0501 | 0.0486 | 0.0369 | 0.0450 | 0.0467 | 0.0388 | 0.0394 | 0.0471 | 0.0436 | 0.0422 |
| 6.1 | 0.0279 | 0.0279 | 0.0214 | 0.0258 | 0.0283 | 0.0246 | 0.0258 | 0.0300 | 0.0271 | 0.0263 |
| 6.3 | 0.0044 | 0.0042 | 0.0032 | 0.0033 | 0.0034 | 0.0040 | 0.0043 | 0.0037 | 0.0045 | 0.0042 |
| 6.5 | 0.0044 | 0.0040 | 0.0046 | 0.0054 | 0.0066 | 0.0056 | 0.0054 | 0.0052 | 0.0058 | 0.0065 |
| 6.7 | 0.0042 | 0.0045 | 0.0040 | 0.0037 | 0.0041 | 0.0039 | 0.0045 | 0.0047 | 0.0041 | 0.0042 |
| 6.9 | 0.0035 | 0.0038 | 0.0036 | 0.0038 | 0.0034 | 0.0039 | 0.0038 | 0.0037 | 0.0033 | 0.0047 |
| 7.1 | 0.0036 | 0.0034 | 0.0036 | 0.0033 | 0.0030 | 0.0035 | 0.0035 | 0.0045 | 0.0041 | 0.0037 |
| 7.3 | 0.0030 | 0.0032 | 0.0031 | 0.0030 | 0.0029 | 0.0034 | 0.0036 | 0.0030 | 0.0041 | 0.0039 |
| 7.5 | 0.0028 | 0.0032 | 0.0030 | 0.0027 | 0.0027 | 0.0032 | 0.0033 | 0.0027 | 0.0031 | 0.0037 |
| 7.7 | 0.0030 | 0.0028 | 0.0032 | 0.0029 | 0.0029 | 0.0031 | 0.0032 | 0.0031 | 0.0039 | 0.0035 |
| 7.9 | 0.0031 | 0.0025 | 0.0030 | 0.0028 | 0.0032 | 0.0031 | 0.0031 | 0.0026 | 0.0031 | 0.0039 |
| 8.1 | 0.0031 | 0.0063 | 0.0032 | 0.0036 | 0.0032 | 0.0031 | 0.0039 | 0.0028 | 0.0031 | 0.0032 |
| 8.3 | 0.0029 | 0.0030 | 0.0049 | 0.0028 | 0.0028 | 0.0036 | 0.0032 | 0.0034 | 0.0057 | 0.0038 |
| 8.5 | 0.0040 | 0.0027 | 0.0029 | 0.0026 | 0.0043 | 0.0033 | 0.0037 | 0.0031 | 0.0032 | 0.0044 |
| 8.7 | 0.0027 | 0.0065 | 0.0029 | 0.0038 | 0.0034 | 0.0032 | 0.0039 | 0.0027 | 0.0032 | 0.0032 |
| 8.9 | 0.0030 | 0.0030 | 0.0038 | 0.0026 | 0.0028 | 0.0033 | 0.0032 | 0.0026 | 0.0040 | 0.0035 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model: MID 17KTL3-X | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2 | 0.1469 | 0.2143 | 0.2293 | 0.2350 | 0.2918 | 0.2244 | 0.2731 | 0.2687 | 0.4383 | 0.2890 |
| 3 | 0.0260 | 0.0195 | 0.0195 | 0.0203 | 0.0629 | 0.0199 | 0.0544 | 0.0483 | 0.1104 | 0.0597 |
| 4 | 0.2265 | 0.2914 | 0.2934 | 0.2890 | 0.3036 | 0.2861 | 0.3247 | 0.3401 | 0.4233 | 0.3981 |
| 5 | 0.7606 | 1.1226 | 1.0576 | 0.9322 | 0.7175 | 0.5824 | 0.5398 | 0.5179 | 0.5678 | 0.5653 |
| 6 | 0.0146 | 0.0170 | 0.0166 | 0.0162 | 0.0386 | 0.0146 | 0.0272 | 0.0199 | 0.0446 | 0.0175 |
| 7 | 0.6855 | 0.7342 | 0.8778 | 0.8117 | 0.6830 | 0.5528 | 0.4793 | 0.4756 | 0.4894 | 0.4639 |
| 8 | 0.1494 | 0.1481 | 0.1546 | 0.1538 | 0.1546 | 0.1287 | 0.1631 | 0.1672 | 0.1985 | 0.1912 |
| 9 | 0.0231 | 0.0345 | 0.0329 | 0.0361 | 0.0414 | 0.0296 | 0.0365 | 0.0296 | 0.0519 | 0.0386 |
| 10 | 0.0731 | 0.0215 | 0.0333 | 0.0325 | 0.0438 | 0.0321 | 0.0605 | 0.0483 | 0.0572 | 0.0479 |
| 11 | 0.4951 | 0.4432 | 0.3620 | 0.4265 | 0.4732 | 0.3953 | 0.3117 | 0.2727 | 0.2439 | 0.2062 |
| 12 | 0.0130 | 0.0158 | 0.0154 | 0.0154 | 0.0256 | 0.0142 | 0.0203 | 0.0207 | 0.0317 | 0.0211 |
| 13 | 0.3912 | 0.4196 | 0.2524 | 0.2869 | 0.3819 | 0.3486 | 0.2991 | 0.2894 | 0.2808 | 0.2447 |
| 14 | 0.0377 | 0.0418 | 0.0373 | 0.0499 | 0.0499 | 0.0292 | 0.0641 | 0.0491 | 0.0475 | 0.0345 |
| 15 | 0.0199 | 0.0296 | 0.0308 | 0.0349 | 0.0361 | 0.0260 | 0.0304 | 0.0381 | 0.0499 | 0.0438 |
| 16 | 0.0674 | 0.0597 | 0.0576 | 0.0682 | 0.0653 | 0.0495 | 0.0686 | 0.0726 | 0.0795 | 0.0767 |
| 17 | 0.2666 | 0.2727 | 0.3283 | 0.2403 | 0.2354 | 0.2817 | 0.2764 | 0.2488 | 0.2386 | 0.2066 |
| 18 | 0.0106 | 0.0158 | 0.0187 | 0.0183 | 0.0264 | 0.0175 | 0.0215 | 0.0170 | 0.0195 | 0.0126 |
| 19 | 0.3068 | 0.3421 | 0.3827 | 0.3036 | 0.2419 | 0.2735 | 0.2610 | 0.2293 | 0.2045 | 0.1721 |
| 20 | 0.0625 | 0.0653 | 0.0653 | 0.0568 | 0.0694 | 0.0779 | 0.0698 | 0.0686 | 0.0682 | 0.0690 |
| 21 | 0.0158 | 0.0231 | 0.0308 | 0.0341 | 0.0381 | 0.0268 | 0.0256 | 0.0329 | 0.0381 | 0.0365 |
| 22 | 0.0292 | 0.0179 | 0.0341 | 0.0317 | 0.0373 | 0.0341 | 0.0528 | 0.0410 | 0.0333 | 0.0276 |
| 23 | 0.2715 | 0.2719 | 0.2362 | 0.2419 | 0.1270 | 0.1981 | 0.2281 | 0.1875 | 0.1648 | 0.1364 |
| 24 | 0.0191 | 0.0175 | 0.0191 | 0.0183 | 0.0244 | 0.0203 | 0.0215 | 0.0231 | 0.0235 | 0.0219 |
| 25 | 0.2183 | 0.1709 | 0.1700 | 0.2127 | 0.1879 | 0.2423 | 0.2971 | 0.2796 | 0.2516 | 0.2281 |
| 26 | 0.0166 | 0.0625 | 0.0390 | 0.0361 | 0.0499 | 0.0783 | 0.0722 | 0.0475 | 0.0280 | 0.0280 |
| 27 | 0.0150 | 0.0162 | 0.0215 | 0.0300 | 0.0353 | 0.0268 | 0.0276 | 0.0280 | 0.0260 | 0.0272 |
| 28 | 0.0276 | 0.0377 | 0.0268 | 0.0260 | 0.0463 | 0.0743 | 0.0718 | 0.0524 | 0.0438 | 0.0455 |
| 29 | 0.1863 | 0.2833 | 0.2293 | 0.1968 | 0.2285 | 0.2386 | 0.3105 | 0.2987 | 0.2537 | 0.2334 |
| 30 | 0.0138 | 0.0191 | 0.0203 | 0.0219 | 0.0244 | 0.0195 | 0.0280 | 0.0239 | 0.0166 | 0.0158 |
| 31 | 0.2338 | 0.2293 | 0.2601 | 0.2261 | 0.2382 | 0.2228 | 0.2606 | 0.1887 | 0.1039 | 0.0913 |
| 32 | 0.0446 | 0.0787 | 0.0698 | 0.0653 | 0.0657 | 0.1031 | 0.1059 | 0.0698 | 0.0308 | 0.0244 |
| 33 | 0.0175 | 0.0191 | 0.0260 | 0.0296 | 0.0296 | 0.0223 | 0.0272 | 0.0288 | 0.0207 | 0.0191 |
| 34 | 0.0276 | 0.0795 | 0.0572 | 0.0499 | 0.0483 | 0.0507 | 0.0357 | 0.0239 | 0.0337 | 0.0446 |
| 35 | 0.2366 | 0.2074 | 0.2029 | 0.2106 | 0.1863 | 0.1871 | 0.2167 | 0.1688 | 0.0617 | 0.0304 |
| 36 | 0.0134 | 0.0179 | 0.0170 | 0.0162 | 0.0195 | 0.0134 | 0.0183 | 0.0179 | 0.0150 | 0.0166 |
| 37 | 0.2297 | 0.2054 | 0.1575 | 0.1834 | 0.1303 | 0.0856 | 0.0540 | 0.0893 | 0.1372 | 0.2106 |
| 38 | 0.0276 | 0.0337 | 0.0430 | 0.0329 | 0.0300 | 0.0369 | 0.0199 | 0.0442 | 0.0649 | 0.0731 |
| 39 | 0.0231 | 0.0248 | 0.0191 | 0.0231 | 0.0211 | 0.0175 | 0.0162 | 0.0183 | 0.0203 | 0.0227 |
| 40 | 0.0471 | 0.0909 | 0.0548 | 0.0524 | 0.0584 | 0.0653 | 0.0824 | 0.0714 | 0.0641 | 0.0694 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 75 | 0.0492 | 0.0506 | 0.0451 | 0.3035 | 0.0450 | 0.2435 | 0.1282 | 0.4481 | 0.1332 | 0.1325 |
| 125 | 0.0206 | 0.0220 | 0.0224 | 0.0881 | 0.0205 | 0.0653 | 0.0366 | 0.1229 | 0.0344 | 0.0315 |
| 175 | 0.0179 | 0.0193 | 0.0201 | 0.0594 | 0.0186 | 0.0459 | 0.0259 | 0.0783 | 0.0246 | 0.0230 |
| 225 | 0.0193 | 0.0219 | 0.0240 | 0.0534 | 0.0207 | 0.0400 | 0.0224 | 0.0597 | 0.0231 | 0.0212 |
| 275 | 0.0199 | 0.0192 | 0.0216 | 0.0451 | 0.0186 | 0.0348 | 0.0214 | 0.0473 | 0.0128 | 0.0118 |
| 325 | 0.0214 | 0.0212 | 0.0247 | 0.0454 | 0.0202 | 0.0322 | 0.0174 | 0.0434 | 0.0176 | 0.0150 |
| 375 | 0.0169 | 0.0207 | 0.0214 | 0.0392 | 0.0176 | 0.0305 | 0.0178 | 0.0377 | 0.0103 | 0.0100 |
| 425 | 0.0175 | 0.0198 | 0.0206 | 0.0346 | 0.0187 | 0.0257 | 0.0164 | 0.0306 | 0.0105 | 0.0103 |
| 475 | 0.0168 | 0.0190 | 0.0200 | 0.0319 | 0.0173 | 0.0240 | 0.0147 | 0.0287 | 0.0105 | 0.0096 |
| 525 | 0.0197 | 0.0219 | 0.0238 | 0.0449 | 0.0199 | 0.0284 | 0.0166 | 0.0294 | 0.0135 | 0.0129 |
| 575 | 0.0200 | 0.0217 | 0.0244 | 0.0340 | 0.0197 | 0.0270 | 0.0181 | 0.0264 | 0.0104 | 0.0090 |
| 625 | 0.0197 | 0.0216 | 0.0248 | 0.0400 | 0.0198 | 0.0269 | 0.0159 | 0.0260 | 0.0116 | 0.0106 |
| 675 | 0.0178 | 0.0210 | 0.0234 | 0.0345 | 0.0193 | 0.0257 | 0.0178 | 0.0234 | 0.0098 | 0.0093 |
| 725 | 0.0178 | 0.0198 | 0.0218 | 0.0297 | 0.0192 | 0.0218 | 0.0155 | 0.0198 | 0.0084 | 0.0088 |
| 775 | 0.0175 | 0.0198 | 0.0214 | 0.0294 | 0.0189 | 0.0216 | 0.0147 | 0.0187 | 0.0084 | 0.0080 |
| 825 | 0.0189 | 0.0226 | 0.0255 | 0.0378 | 0.0203 | 0.0267 | 0.0162 | 0.0244 | 0.0112 | 0.0111 |
| 875 | 0.0186 | 0.0218 | 0.0251 | 0.0297 | 0.0206 | 0.0257 | 0.0188 | 0.0199 | 0.0120 | 0.0099 |
| 925 | 0.0200 | 0.0231 | 0.0264 | 0.0367 | 0.0211 | 0.0252 | 0.0163 | 0.0215 | 0.0101 | 0.0097 |
| 975 | 0.0176 | 0.0238 | 0.0252 | 0.0321 | 0.0206 | 0.0251 | 0.0182 | 0.0218 | 0.0119 | 0.0100 |
| 1025 | 0.0183 | 0.0226 | 0.0245 | 0.0280 | 0.0210 | 0.0219 | 0.0163 | 0.0177 | 0.0094 | 0.0088 |
| 1075 | 0.0192 | 0.0237 | 0.0254 | 0.0275 | 0.0210 | 0.0225 | 0.0167 | 0.0184 | 0.0103 | 0.0090 |
| 1125 | 0.0206 | 0.0281 | 0.0313 | 0.0340 | 0.0242 | 0.0293 | 0.0218 | 0.0254 | 0.0149 | 0.0140 |
| 1175 | 0.0225 | 0.0258 | 0.0307 | 0.0339 | 0.0273 | 0.0305 | 0.0228 | 0.0213 | 0.0175 | 0.0169 |
| 1225 | 0.0253 | 0.0323 | 0.0341 | 0.0391 | 0.0267 | 0.0307 | 0.0265 | 0.0324 | 0.0130 | 0.0171 |
| 1275 | 0.0285 | 0.0347 | 0.0411 | 0.0364 | 0.0314 | 0.0372 | 0.0352 | 0.0296 | 0.0291 | 0.0226 |
| 1325 | 0.0225 | 0.0243 | 0.0290 | 0.0421 | 0.0376 | 0.0371 | 0.0242 | 0.0208 | 0.0208 | 0.0264 |
| 1375 | 0.0205 | 0.0228 | 0.0258 | 0.0340 | 0.0278 | 0.0264 | 0.0212 | 0.0170 | 0.0115 | 0.0167 |
| 1425 | 0.0227 | 0.0256 | 0.0289 | 0.0415 | 0.0284 | 0.0319 | 0.0239 | 0.0259 | 0.0124 | 0.0130 |
| 1475 | 0.0236 | 0.0248 | 0.0287 | 0.0310 | 0.0279 | 0.0348 | 0.0251 | 0.0191 | 0.0143 | 0.0134 |
| 1525 | 0.0221 | 0.0250 | 0.0288 | 0.0384 | 0.0286 | 0.0340 | 0.0297 | 0.0216 | 0.0119 | 0.0118 |
| 1575 | 0.0212 | 0.0241 | 0.0269 | 0.0324 | 0.0285 | 0.0335 | 0.0314 | 0.0214 | 0.0169 | 0.0160 |
| 1625 | 0.0213 | 0.0222 | 0.0253 | 0.0294 | 0.0276 | 0.0301 | 0.0238 | 0.0166 | 0.0118 | 0.0118 |
| 1675 | 0.0204 | 0.0211 | 0.0227 | 0.0260 | 0.0237 | 0.0295 | 0.0237 | 0.0166 | 0.0120 | 0.0122 |
| 1725 | 0.0201 | 0.0213 | 0.0222 | 0.0307 | 0.0215 | 0.0296 | 0.0293 | 0.0206 | 0.0144 | 0.0153 |
| 1775 | 0.0199 | 0.0196 | 0.0212 | 0.0227 | 0.0178 | 0.0242 | 0.0263 | 0.0182 | 0.0169 | 0.0168 |
| 1825 | 0.0206 | 0.0193 | 0.0205 | 0.0248 | 0.0155 | 0.0192 | 0.0170 | 0.0190 | 0.0117 | 0.0140 |
| 1875 | 0.0180 | 0.0193 | 0.0189 | 0.0193 | 0.0138 | 0.0139 | 0.0126 | 0.0146 | 0.0133 | 0.0164 |
| 1925 | 0.0169 | 0.0169 | 0.0166 | 0.0167 | 0.0123 | 0.0125 | 0.0116 | 0.0118 | 0.0097 | 0.0134 |
| 1975 | 0.0172 | 0.0170 | 0.0165 | 0.0180 | 0.0117 | 0.0132 | 0.0098 | 0.0123 | 0.0090 | 0.0112 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2.1 | 0.0126 | 0.0125 | 0.0108 | 0.0115 | 0.0077 | 0.0088 | 0.0065 | 0.0063 | 0.0053 | 0.0058 |
| 2.3 | 0.0486 | 0.0333 | 0.0232 | 0.0295 | 0.0301 | 0.0381 | 0.0177 | 0.0113 | 0.0166 | 0.0237 |
| 2.5 | 0.0253 | 0.0298 | 0.0219 | 0.0220 | 0.0228 | 0.0317 | 0.0156 | 0.0116 | 0.0169 | 0.0247 |
| 2.7 | 0.0084 | 0.0101 | 0.0093 | 0.0111 | 0.0078 | 0.0080 | 0.0066 | 0.0064 | 0.0052 | 0.0064 |
| 2.9 | 0.0369 | 0.0298 | 0.0236 | 0.0184 | 0.0273 | 0.0303 | 0.0156 | 0.0066 | 0.0097 | 0.0100 |
| 3.1 | 0.0185 | 0.0268 | 0.0175 | 0.0154 | 0.0205 | 0.0244 | 0.0148 | 0.0064 | 0.0062 | 0.0081 |
| 3.3 | 0.0064 | 0.0079 | 0.0073 | 0.0098 | 0.0057 | 0.0069 | 0.0052 | 0.0060 | 0.0053 | 0.0051 |
| 3.5 | 0.0114 | 0.0234 | 0.0208 | 0.0171 | 0.0149 | 0.0190 | 0.0107 | 0.0051 | 0.0121 | 0.0132 |
| 3.7 | 0.0237 | 0.0225 | 0.0191 | 0.0143 | 0.0142 | 0.0153 | 0.0157 | 0.0060 | 0.0074 | 0.0094 |
| 3.9 | 0.0060 | 0.0063 | 0.0068 | 0.0083 | 0.0067 | 0.0072 | 0.0058 | 0.0062 | 0.0045 | 0.0048 |
| 4.1 | 0.0228 | 0.0232 | 0.0210 | 0.0152 | 0.0173 | 0.0108 | 0.0134 | 0.0074 | 0.0077 | 0.0107 |
| 4.3 | 0.0213 | 0.0253 | 0.0219 | 0.0170 | 0.0226 | 0.0170 | 0.0144 | 0.0091 | 0.0055 | 0.0049 |
| 4.5 | 0.0063 | 0.0071 | 0.0068 | 0.0077 | 0.0072 | 0.0067 | 0.0047 | 0.0052 | 0.0046 | 0.0045 |
| 4.7 | 0.0206 | 0.0186 | 0.0184 | 0.0152 | 0.0158 | 0.0166 | 0.0078 | 0.0069 | 0.0059 | 0.0049 |
| 4.9 | 0.0193 | 0.0203 | 0.0190 | 0.0143 | 0.0145 | 0.0153 | 0.0063 | 0.0059 | 0.0055 | 0.0039 |
| 5.1 | 0.0049 | 0.0051 | 0.0051 | 0.0059 | 0.0052 | 0.0054 | 0.0035 | 0.0041 | 0.0033 | 0.0032 |
| 5.3 | 0.0099 | 0.0083 | 0.0087 | 0.0082 | 0.0078 | 0.0077 | 0.0047 | 0.0053 | 0.0055 | 0.0052 |
| 5.5 | 0.0087 | 0.0105 | 0.0098 | 0.0084 | 0.0102 | 0.0090 | 0.0058 | 0.0060 | 0.0056 | 0.0056 |
| 5.7 | 0.0044 | 0.0045 | 0.0043 | 0.0050 | 0.0043 | 0.0045 | 0.0036 | 0.0044 | 0.0034 | 0.0040 |
| 5.9 | 0.0582 | 0.0552 | 0.0531 | 0.0441 | 0.0502 | 0.0459 | 0.0527 | 0.0447 | 0.0549 | 0.0381 |
| 6.1 | 0.0341 | 0.0320 | 0.0349 | 0.0305 | 0.0363 | 0.0320 | 0.0346 | 0.0293 | 0.0354 | 0.0288 |
| 6.3 | 0.0041 | 0.0049 | 0.0042 | 0.0044 | 0.0041 | 0.0044 | 0.0031 | 0.0035 | 0.0028 | 0.0035 |
| 6.5 | 0.0044 | 0.0042 | 0.0047 | 0.0059 | 0.0060 | 0.0061 | 0.0064 | 0.0071 | 0.0074 | 0.0087 |
| 6.7 | 0.0043 | 0.0047 | 0.0041 | 0.0046 | 0.0046 | 0.0051 | 0.0041 | 0.0041 | 0.0037 | 0.0044 |
| 6.9 | 0.0036 | 0.0034 | 0.0032 | 0.0034 | 0.0034 | 0.0040 | 0.0031 | 0.0051 | 0.0031 | 0.0032 |
| 7.1 | 0.0037 | 0.0041 | 0.0037 | 0.0043 | 0.0036 | 0.0049 | 0.0038 | 0.0036 | 0.0033 | 0.0035 |
| 7.3 | 0.0036 | 0.0036 | 0.0031 | 0.0036 | 0.0031 | 0.0032 | 0.0038 | 0.0038 | 0.0039 | 0.0029 |
| 7.5 | 0.0027 | 0.0028 | 0.0030 | 0.0030 | 0.0030 | 0.0031 | 0.0026 | 0.0034 | 0.0027 | 0.0032 |
| 7.7 | 0.0032 | 0.0028 | 0.0029 | 0.0035 | 0.0028 | 0.0034 | 0.0038 | 0.0032 | 0.0026 | 0.0027 |
| 7.9 | 0.0029 | 0.0030 | 0.0028 | 0.0029 | 0.0031 | 0.0032 | 0.0030 | 0.0033 | 0.0031 | 0.0029 |
| 8.1 | 0.0032 | 0.0030 | 0.0029 | 0.0033 | 0.0029 | 0.0032 | 0.0025 | 0.0044 | 0.0027 | 0.0031 |
| 8.3 | 0.0028 | 0.0027 | 0.0033 | 0.0036 | 0.0029 | 0.0035 | 0.0068 | 0.0029 | 0.0031 | 0.0027 |
| 8.5 | 0.0031 | 0.0031 | 0.0031 | 0.0030 | 0.0038 | 0.0039 | 0.0030 | 0.0031 | 0.0044 | 0.0033 |
| 8.7 | 0.0026 | 0.0029 | 0.0028 | 0.0036 | 0.0027 | 0.0035 | 0.0025 | 0.0045 | 0.0026 | 0.0029 |
| 8.9 | 0.0032 | 0.0029 | 0.0028 | 0.0036 | 0.0029 | 0.0034 | 0.0039 | 0.0031 | 0.0026 | 0.0029 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model: MID 20KTL3-X | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2 | 0.1456 | 0.1849 | 0.2059 | 0.1935 | 0.2118 | 0.2304 | 0.2432 | 0.2742 | 0.2670 | 0.3408 |
| 3 | 0.0193 | 0.0179 | 0.0193 | 0.0128 | 0.0135 | 0.0155 | 0.0397 | 0.0504 | 0.0524 | 0.0566 |
| 4 | 0.2032 | 0.2487 | 0.2522 | 0.2415 | 0.2522 | 0.2780 | 0.2908 | 0.3412 | 0.3529 | 0.4267 |
| 5 | 0.6423 | 0.9824 | 0.8613 | 0.6737 | 0.5302 | 0.4577 | 0.4415 | 0.4753 | 0.4902 | 0.5802 |
| 6 | 0.0117 | 0.0404 | 0.0179 | 0.0166 | 0.0135 | 0.0159 | 0.0162 | 0.0145 | 0.0124 | 0.0179 |
| 7 | 0.5505 | 0.6671 | 0.7303 | 0.6250 | 0.5036 | 0.4115 | 0.4022 | 0.4108 | 0.3994 | 0.4677 |
| 8 | 0.1214 | 0.1466 | 0.1328 | 0.1276 | 0.1242 | 0.1390 | 0.1452 | 0.1666 | 0.1666 | 0.2077 |
| 9 | 0.0183 | 0.0304 | 0.0279 | 0.0283 | 0.0248 | 0.0235 | 0.0252 | 0.0328 | 0.0341 | 0.0321 |
| 10 | 0.0514 | 0.0255 | 0.0300 | 0.0307 | 0.0241 | 0.0421 | 0.0397 | 0.0421 | 0.0431 | 0.0469 |
| 11 | 0.4322 | 0.3325 | 0.3232 | 0.4167 | 0.3605 | 0.2701 | 0.2301 | 0.1959 | 0.1645 | 0.1638 |
| 12 | 0.0114 | 0.0186 | 0.0152 | 0.0155 | 0.0135 | 0.0152 | 0.0166 | 0.0155 | 0.0166 | 0.0238 |
| 13 | 0.3401 | 0.3308 | 0.2104 | 0.3208 | 0.3122 | 0.2597 | 0.2449 | 0.2294 | 0.2018 | 0.2070 |
| 14 | 0.0276 | 0.0493 | 0.0310 | 0.0517 | 0.0283 | 0.0435 | 0.0397 | 0.0341 | 0.0273 | 0.0369 |
| 15 | 0.0172 | 0.0324 | 0.0283 | 0.0293 | 0.0235 | 0.0255 | 0.0317 | 0.0373 | 0.0383 | 0.0452 |
| 16 | 0.0580 | 0.0717 | 0.0531 | 0.0648 | 0.0479 | 0.0569 | 0.0635 | 0.0673 | 0.0680 | 0.0876 |
| 17 | 0.2135 | 0.2653 | 0.2525 | 0.1835 | 0.2366 | 0.2380 | 0.2111 | 0.1977 | 0.1680 | 0.1628 |
| 18 | 0.0090 | 0.0169 | 0.0176 | 0.0145 | 0.0179 | 0.0210 | 0.0135 | 0.0097 | 0.0100 | 0.0145 |
| 19 | 0.2642 | 0.3049 | 0.3060 | 0.2059 | 0.2290 | 0.2256 | 0.1928 | 0.1673 | 0.1356 | 0.1166 |
| 20 | 0.0548 | 0.0535 | 0.0552 | 0.0435 | 0.0666 | 0.0614 | 0.0604 | 0.0614 | 0.0638 | 0.0845 |
| 21 | 0.0138 | 0.0255 | 0.0293 | 0.0273 | 0.0304 | 0.0252 | 0.0266 | 0.0310 | 0.0341 | 0.0362 |
| 22 | 0.0248 | 0.0245 | 0.0307 | 0.0297 | 0.0286 | 0.0383 | 0.0352 | 0.0286 | 0.0293 | 0.0341 |
| 23 | 0.2335 | 0.1945 | 0.2159 | 0.1325 | 0.1476 | 0.1990 | 0.1614 | 0.1342 | 0.1052 | 0.0866 |
| 24 | 0.0135 | 0.0131 | 0.0155 | 0.0169 | 0.0176 | 0.0186 | 0.0179 | 0.0166 | 0.0179 | 0.0217 |
| 25 | 0.1852 | 0.1735 | 0.1604 | 0.1794 | 0.1856 | 0.2560 | 0.2363 | 0.2149 | 0.1859 | 0.1670 |
| 26 | 0.0166 | 0.0445 | 0.0314 | 0.0238 | 0.0531 | 0.0524 | 0.0348 | 0.0193 | 0.0169 | 0.0224 |
| 27 | 0.0124 | 0.0152 | 0.0217 | 0.0262 | 0.0259 | 0.0273 | 0.0221 | 0.0204 | 0.0224 | 0.0248 |
| 28 | 0.0331 | 0.0266 | 0.0241 | 0.0245 | 0.0483 | 0.0535 | 0.0428 | 0.0397 | 0.0410 | 0.0535 |
| 29 | 0.1432 | 0.2277 | 0.1687 | 0.2163 | 0.1925 | 0.2642 | 0.2532 | 0.2180 | 0.1894 | 0.1621 |
| 30 | 0.0124 | 0.0159 | 0.0179 | 0.0193 | 0.0179 | 0.0283 | 0.0190 | 0.0110 | 0.0135 | 0.0148 |
| 31 | 0.1914 | 0.1942 | 0.2090 | 0.2135 | 0.1901 | 0.2256 | 0.1573 | 0.0838 | 0.0831 | 0.0897 |
| 32 | 0.0397 | 0.0624 | 0.0555 | 0.0624 | 0.0690 | 0.0845 | 0.0569 | 0.0259 | 0.0221 | 0.0290 |
| 33 | 0.0148 | 0.0176 | 0.0231 | 0.0238 | 0.0238 | 0.0286 | 0.0224 | 0.0183 | 0.0166 | 0.0210 |
| 34 | 0.0235 | 0.0528 | 0.0466 | 0.0414 | 0.0352 | 0.0276 | 0.0221 | 0.0317 | 0.0486 | 0.0635 |
| 35 | 0.1928 | 0.1621 | 0.1818 | 0.1663 | 0.1587 | 0.1887 | 0.1414 | 0.0397 | 0.0421 | 0.0780 |
| 36 | 0.0121 | 0.0141 | 0.0159 | 0.0152 | 0.0138 | 0.0176 | 0.0155 | 0.0114 | 0.0176 | 0.0231 |
| 37 | 0.1870 | 0.1752 | 0.1501 | 0.1273 | 0.0883 | 0.0479 | 0.0807 | 0.1345 | 0.2056 | 0.2677 |
| 38 | 0.0273 | 0.0252 | 0.0304 | 0.0266 | 0.0273 | 0.0169 | 0.0397 | 0.0614 | 0.0655 | 0.0680 |
| 39 | 0.0190 | 0.0224 | 0.0183 | 0.0200 | 0.0169 | 0.0141 | 0.0159 | 0.0152 | 0.0228 | 0.0207 |
| 40 | 0.0438 | 0.0683 | 0.0442 | 0.0442 | 0.0511 | 0.0673 | 0.0611 | 0.0573 | 0.0642 | 0.0669 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 75 | 0.0501 | 0.0985 | 0.0462 | 0.0459 | 0.0514 | 0.1211 | 0.1382 | 0.1333 | 0.1445 | 0.5875 |
| 125 | 0.0241 | 0.0314 | 0.0224 | 0.0236 | 0.0194 | 0.0358 | 0.0381 | 0.0318 | 0.0346 | 0.1542 |
| 175 | 0.0206 | 0.0229 | 0.0207 | 0.0205 | 0.0181 | 0.0250 | 0.0247 | 0.0241 | 0.0275 | 0.0988 |
| 225 | 0.0199 | 0.0302 | 0.0247 | 0.0241 | 0.0191 | 0.0225 | 0.0232 | 0.0217 | 0.0247 | 0.0769 |
| 275 | 0.0242 | 0.0259 | 0.0220 | 0.0221 | 0.0210 | 0.0207 | 0.0149 | 0.0116 | 0.0155 | 0.0576 |
| 325 | 0.1178 | 0.0290 | 0.0232 | 0.0241 | 0.0213 | 0.0176 | 0.0181 | 0.0163 | 0.0187 | 0.0551 |
| 375 | 0.0233 | 0.0259 | 0.0227 | 0.0212 | 0.0199 | 0.0184 | 0.0133 | 0.0107 | 0.0128 | 0.0460 |
| 425 | 0.1210 | 0.0236 | 0.0221 | 0.0215 | 0.0181 | 0.0170 | 0.0132 | 0.0104 | 0.0129 | 0.0421 |
| 475 | 0.0217 | 0.0223 | 0.0214 | 0.0214 | 0.0172 | 0.0156 | 0.0121 | 0.0099 | 0.0136 | 0.0390 |
| 525 | 0.0210 | 0.0271 | 0.0240 | 0.0241 | 0.0204 | 0.0173 | 0.0153 | 0.0133 | 0.0156 | 0.0378 |
| 575 | 0.0225 | 0.0262 | 0.0233 | 0.0236 | 0.0225 | 0.0177 | 0.0119 | 0.0104 | 0.0125 | 0.0344 |
| 625 | 0.0310 | 0.0259 | 0.0238 | 0.0242 | 0.0221 | 0.0156 | 0.0133 | 0.0116 | 0.0132 | 0.0341 |
| 675 | 0.0427 | 0.0247 | 0.0264 | 0.0225 | 0.0201 | 0.0188 | 0.0130 | 0.0097 | 0.0120 | 0.0305 |
| 725 | 0.0468 | 0.0225 | 0.0241 | 0.0233 | 0.0191 | 0.0163 | 0.0111 | 0.0081 | 0.0113 | 0.0299 |
| 775 | 0.0457 | 0.0216 | 0.0242 | 0.0233 | 0.0190 | 0.0152 | 0.0106 | 0.0079 | 0.0109 | 0.0281 |
| 825 | 0.0429 | 0.0275 | 0.0261 | 0.0245 | 0.0221 | 0.0173 | 0.0140 | 0.0112 | 0.0127 | 0.0288 |
| 875 | 0.0239 | 0.0259 | 0.0242 | 0.0252 | 0.0243 | 0.0186 | 0.0135 | 0.0116 | 0.0128 | 0.0277 |
| 925 | 0.0250 | 0.0309 | 0.0252 | 0.0280 | 0.0259 | 0.0187 | 0.0149 | 0.0125 | 0.0146 | 0.0286 |
| 975 | 0.0245 | 0.0290 | 0.0286 | 0.0257 | 0.0239 | 0.0223 | 0.0177 | 0.0155 | 0.0178 | 0.0311 |
| 1025 | 0.0230 | 0.0268 | 0.0261 | 0.0279 | 0.0245 | 0.0191 | 0.0150 | 0.0129 | 0.0148 | 0.0280 |
| 1075 | 0.0277 | 0.0338 | 0.0304 | 0.0334 | 0.0318 | 0.0212 | 0.0191 | 0.0192 | 0.0218 | 0.0330 |
| 1125 | 0.0298 | 0.0352 | 0.0407 | 0.0323 | 0.0286 | 0.0344 | 0.0261 | 0.0242 | 0.0261 | 0.0364 |
| 1175 | 0.0244 | 0.0291 | 0.0311 | 0.0299 | 0.0287 | 0.0221 | 0.0164 | 0.0163 | 0.0154 | 0.0253 |
| 1225 | 0.0228 | 0.0309 | 0.0312 | 0.0313 | 0.0286 | 0.0205 | 0.0150 | 0.0112 | 0.0131 | 0.0253 |
| 1275 | 0.0218 | 0.0295 | 0.0313 | 0.0304 | 0.0275 | 0.0232 | 0.0155 | 0.0135 | 0.0136 | 0.0246 |
| 1325 | 0.0236 | 0.0260 | 0.0289 | 0.0299 | 0.0272 | 0.0199 | 0.0123 | 0.0097 | 0.0121 | 0.0229 |
| 1375 | 0.0227 | 0.0255 | 0.0285 | 0.0305 | 0.0274 | 0.0211 | 0.0123 | 0.0092 | 0.0115 | 0.0225 |
| 1425 | 0.0234 | 0.0292 | 0.0308 | 0.0319 | 0.0304 | 0.0248 | 0.0142 | 0.0108 | 0.0122 | 0.0236 |
| 1475 | 0.0241 | 0.0280 | 0.0287 | 0.0321 | 0.0345 | 0.0249 | 0.0149 | 0.0140 | 0.0135 | 0.0233 |
| 1525 | 0.0241 | 0.0291 | 0.0289 | 0.0320 | 0.0361 | 0.0282 | 0.0183 | 0.0121 | 0.0132 | 0.0242 |
| 1575 | 0.0230 | 0.0293 | 0.0305 | 0.0320 | 0.0328 | 0.0322 | 0.0193 | 0.0162 | 0.0154 | 0.0230 |
| 1625 | 0.0228 | 0.0254 | 0.0278 | 0.0309 | 0.0308 | 0.0257 | 0.0153 | 0.0120 | 0.0125 | 0.0229 |
| 1675 | 0.0219 | 0.0239 | 0.0255 | 0.0262 | 0.0297 | 0.0260 | 0.0164 | 0.0127 | 0.0135 | 0.0239 |
| 1725 | 0.0212 | 0.0265 | 0.0251 | 0.0243 | 0.0293 | 0.0304 | 0.0200 | 0.0144 | 0.0157 | 0.0256 |
| 1775 | 0.0215 | 0.0230 | 0.0212 | 0.0228 | 0.0257 | 0.0266 | 0.0176 | 0.0179 | 0.0171 | 0.0260 |
| 1825 | 0.0202 | 0.0233 | 0.0201 | 0.0194 | 0.0188 | 0.0186 | 0.0128 | 0.0133 | 0.0158 | 0.0355 |
| 1875 | 0.0198 | 0.0225 | 0.0194 | 0.0177 | 0.0153 | 0.0145 | 0.0132 | 0.0153 | 0.0181 | 0.0350 |
| 1925 | 0.0188 | 0.0190 | 0.0183 | 0.0168 | 0.0143 | 0.0136 | 0.0108 | 0.0122 | 0.0161 | 0.0296 |
| 1975 | 0.0180 | 0.0178 | 0.0179 | 0.0153 | 0.0132 | 0.0121 | 0.0102 | 0.0107 | 0.0128 | 0.0252 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2.1 | 0.0106 | 0.0130 | 0.0112 | 0.0108 | 0.0108 | 0.0069 | 0.0063 | 0.0064 | 0.0071 | 0.0121 |
| 2.3 | 0.0366 | 0.0300 | 0.0273 | 0.0249 | 0.0343 | 0.0163 | 0.0104 | 0.0196 | 0.0241 | 0.0331 |
| 2.5 | 0.0329 | 0.0249 | 0.0172 | 0.0190 | 0.0268 | 0.0138 | 0.0101 | 0.0213 | 0.0255 | 0.0336 |
| 2.7 | 0.0084 | 0.0092 | 0.0091 | 0.0079 | 0.0088 | 0.0056 | 0.0047 | 0.0042 | 0.0061 | 0.0090 |
| 2.9 | 0.0351 | 0.0272 | 0.0239 | 0.0207 | 0.0273 | 0.0128 | 0.0058 | 0.0086 | 0.0095 | 0.0111 |
| 3.1 | 0.0221 | 0.0232 | 0.0215 | 0.0131 | 0.0192 | 0.0121 | 0.0044 | 0.0076 | 0.0105 | 0.0143 |
| 3.3 | 0.0058 | 0.0075 | 0.0068 | 0.0074 | 0.0076 | 0.0054 | 0.0046 | 0.0055 | 0.0057 | 0.0085 |
| 3.5 | 0.0235 | 0.0205 | 0.0098 | 0.0152 | 0.0152 | 0.0088 | 0.0047 | 0.0110 | 0.0123 | 0.0118 |
| 3.7 | 0.0185 | 0.0211 | 0.0184 | 0.0174 | 0.0129 | 0.0122 | 0.0050 | 0.0082 | 0.0073 | 0.0108 |
| 3.9 | 0.0061 | 0.0068 | 0.0068 | 0.0064 | 0.0073 | 0.0061 | 0.0049 | 0.0046 | 0.0050 | 0.0067 |
| 4.1 | 0.0185 | 0.0222 | 0.0201 | 0.0119 | 0.0117 | 0.0131 | 0.0083 | 0.0070 | 0.0142 | 0.0167 |
| 4.3 | 0.0196 | 0.0229 | 0.0163 | 0.0149 | 0.0169 | 0.0135 | 0.0084 | 0.0044 | 0.0051 | 0.0092 |
| 4.5 | 0.0063 | 0.0067 | 0.0066 | 0.0073 | 0.0066 | 0.0044 | 0.0047 | 0.0045 | 0.0041 | 0.0055 |
| 4.7 | 0.0195 | 0.0195 | 0.0177 | 0.0135 | 0.0156 | 0.0076 | 0.0075 | 0.0055 | 0.0060 | 0.0096 |
| 4.9 | 0.0178 | 0.0185 | 0.0178 | 0.0164 | 0.0149 | 0.0065 | 0.0057 | 0.0050 | 0.0038 | 0.0052 |
| 5.1 | 0.0048 | 0.0049 | 0.0047 | 0.0047 | 0.0046 | 0.0036 | 0.0032 | 0.0031 | 0.0035 | 0.0053 |
| 5.3 | 0.0068 | 0.0088 | 0.0078 | 0.0077 | 0.0065 | 0.0047 | 0.0051 | 0.0059 | 0.0044 | 0.0055 |
| 5.5 | 0.0109 | 0.0100 | 0.0089 | 0.0088 | 0.0087 | 0.0065 | 0.0061 | 0.0059 | 0.0062 | 0.0070 |
| 5.7 | 0.0042 | 0.0044 | 0.0047 | 0.0042 | 0.0041 | 0.0034 | 0.0032 | 0.0034 | 0.0042 | 0.0055 |
| 5.9 | 0.0561 | 0.0508 | 0.0498 | 0.0502 | 0.0488 | 0.0526 | 0.0514 | 0.0519 | 0.0378 | 0.0342 |
| 6.1 | 0.0334 | 0.0316 | 0.0320 | 0.0337 | 0.0337 | 0.0354 | 0.0338 | 0.0339 | 0.0288 | 0.0251 |
| 6.3 | 0.0034 | 0.0034 | 0.0034 | 0.0032 | 0.0035 | 0.0032 | 0.0026 | 0.0029 | 0.0031 | 0.0044 |
| 6.5 | 0.0041 | 0.0045 | 0.0058 | 0.0072 | 0.0066 | 0.0074 | 0.0077 | 0.0081 | 0.0096 | 0.0099 |
| 6.7 | 0.0046 | 0.0040 | 0.0038 | 0.0039 | 0.0036 | 0.0033 | 0.0039 | 0.0038 | 0.0044 | 0.0053 |
| 6.9 | 0.0037 | 0.0032 | 0.0044 | 0.0047 | 0.0036 | 0.0028 | 0.0027 | 0.0026 | 0.0028 | 0.0041 |
| 7.1 | 0.0033 | 0.0036 | 0.0041 | 0.0043 | 0.0036 | 0.0031 | 0.0035 | 0.0032 | 0.0032 | 0.0042 |
| 7.3 | 0.0042 | 0.0034 | 0.0042 | 0.0046 | 0.0037 | 0.0029 | 0.0027 | 0.0029 | 0.0029 | 0.0038 |
| 7.5 | 0.0030 | 0.0034 | 0.0030 | 0.0029 | 0.0027 | 0.0026 | 0.0030 | 0.0029 | 0.0027 | 0.0039 |
| 7.7 | 0.0033 | 0.0029 | 0.0028 | 0.0026 | 0.0031 | 0.0028 | 0.0031 | 0.0040 | 0.0040 | 0.0042 |
| 7.9 | 0.0031 | 0.0029 | 0.0028 | 0.0026 | 0.0031 | 0.0028 | 0.0027 | 0.0027 | 0.0026 | 0.0036 |
| 8.1 | 0.0029 | 0.0029 | 0.0028 | 0.0031 | 0.0029 | 0.0027 | 0.0027 | 0.0027 | 0.0030 | 0.0038 |
| 8.3 | 0.0030 | 0.0036 | 0.0033 | 0.0029 | 0.0030 | 0.0040 | 0.0033 | 0.0031 | 0.0028 | 0.0035 |
| 8.5 | 0.0052 | 0.0032 | 0.0034 | 0.0039 | 0.0042 | 0.0027 | 0.0026 | 0.0032 | 0.0031 | 0.0041 |
| 8.7 | 0.0028 | 0.0030 | 0.0029 | 0.0032 | 0.0029 | 0.0029 | 0.0027 | 0.0030 | 0.0032 | 0.0041 |
| 8.9 | 0.0029 | 0.0031 | 0.0027 | 0.0028 | 0.0030 | 0.0032 | 0.0030 | 0.0026 | 0.0027 | 0.0032 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model: MID 22KTL3-X | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2 | 0.1261 | 0.1728 | 0.1835 | 0.1810 | 0.1810 | 0.2061 | 0.2224 | 0.2487 | 0.2657 | 0.3159 |
| 3 | 0.0157 | 0.0173 | 0.0173 | 0.0169 | 0.0173 | 0.0132 | 0.0380 | 0.0477 | 0.0458 | 0.0480 |
| 4 | 0.1766 | 0.2180 | 0.2262 | 0.2243 | 0.2205 | 0.2500 | 0.2679 | 0.3058 | 0.3193 | 0.3952 |
| 5 | 0.5787 | 0.8720 | 0.7585 | 0.5536 | 0.4216 | 0.3974 | 0.3868 | 0.4253 | 0.4442 | 0.5332 |
| 6 | 0.0072 | 0.0125 | 0.0141 | 0.0141 | 0.0141 | 0.0160 | 0.0151 | 0.0135 | 0.0132 | 0.0151 |
| 7 | 0.5154 | 0.6443 | 0.6490 | 0.5307 | 0.3999 | 0.3513 | 0.3482 | 0.3598 | 0.3642 | 0.4291 |
| 8 | 0.1085 | 0.1214 | 0.1205 | 0.1164 | 0.1013 | 0.1264 | 0.1346 | 0.1484 | 0.1590 | 0.1948 |
| 9 | 0.0157 | 0.0226 | 0.0238 | 0.0242 | 0.0210 | 0.0191 | 0.0223 | 0.0307 | 0.0273 | 0.0257 |
| 10 | 0.0514 | 0.0257 | 0.0251 | 0.0260 | 0.0257 | 0.0367 | 0.0317 | 0.0386 | 0.0392 | 0.0467 |
| 11 | 0.3861 | 0.2575 | 0.3061 | 0.3736 | 0.2820 | 0.2202 | 0.1804 | 0.1565 | 0.1336 | 0.1361 |
| 12 | 0.0069 | 0.0132 | 0.0119 | 0.0129 | 0.0132 | 0.0141 | 0.0173 | 0.0144 | 0.0154 | 0.0238 |
| 13 | 0.3074 | 0.2610 | 0.1970 | 0.3074 | 0.2572 | 0.2161 | 0.2073 | 0.1848 | 0.1688 | 0.1807 |
| 14 | 0.0257 | 0.0267 | 0.0320 | 0.0383 | 0.0242 | 0.0433 | 0.0342 | 0.0254 | 0.0248 | 0.0354 |
| 15 | 0.0141 | 0.0245 | 0.0245 | 0.0220 | 0.0194 | 0.0226 | 0.0301 | 0.0361 | 0.0383 | 0.0414 |
| 16 | 0.0521 | 0.0486 | 0.0471 | 0.0496 | 0.0345 | 0.0511 | 0.0533 | 0.0627 | 0.0690 | 0.0847 |
| 17 | 0.1948 | 0.2707 | 0.2102 | 0.1844 | 0.2186 | 0.2026 | 0.1766 | 0.1593 | 0.1364 | 0.1434 |
| 18 | 0.0091 | 0.0160 | 0.0151 | 0.0179 | 0.0191 | 0.0185 | 0.0144 | 0.0097 | 0.0110 | 0.0147 |
| 19 | 0.2371 | 0.2836 | 0.2635 | 0.1904 | 0.2120 | 0.1866 | 0.1590 | 0.1277 | 0.1063 | 0.0988 |
| 20 | 0.0499 | 0.0527 | 0.0518 | 0.0527 | 0.0571 | 0.0602 | 0.0540 | 0.0583 | 0.0678 | 0.0816 |
| 21 | 0.0141 | 0.0238 | 0.0254 | 0.0285 | 0.0238 | 0.0238 | 0.0273 | 0.0301 | 0.0323 | 0.0348 |
| 22 | 0.0229 | 0.0213 | 0.0232 | 0.0289 | 0.0254 | 0.0358 | 0.0257 | 0.0210 | 0.0263 | 0.0329 |
| 23 | 0.2149 | 0.1546 | 0.1995 | 0.0976 | 0.1622 | 0.1681 | 0.1327 | 0.1029 | 0.0841 | 0.0806 |
| 24 | 0.0107 | 0.0113 | 0.0141 | 0.0147 | 0.0166 | 0.0176 | 0.0198 | 0.0151 | 0.0166 | 0.0210 |
| 25 | 0.1681 | 0.1669 | 0.1550 | 0.1512 | 0.2008 | 0.2274 | 0.2023 | 0.1741 | 0.1487 | 0.1421 |
| 26 | 0.0132 | 0.0332 | 0.0279 | 0.0402 | 0.0590 | 0.0486 | 0.0254 | 0.0147 | 0.0173 | 0.0235 |
| 27 | 0.0119 | 0.0154 | 0.0194 | 0.0204 | 0.0188 | 0.0238 | 0.0207 | 0.0204 | 0.0248 | 0.0260 |
| 28 | 0.0245 | 0.0201 | 0.0201 | 0.0348 | 0.0583 | 0.0496 | 0.0364 | 0.0348 | 0.0461 | 0.0499 |
| 29 | 0.1412 | 0.2029 | 0.1424 | 0.1882 | 0.1954 | 0.2465 | 0.2193 | 0.1779 | 0.1512 | 0.1393 |
| 30 | 0.0110 | 0.0154 | 0.0166 | 0.0182 | 0.0198 | 0.0251 | 0.0198 | 0.0110 | 0.0110 | 0.0135 |
| 31 | 0.1816 | 0.1731 | 0.1801 | 0.1935 | 0.1766 | 0.1920 | 0.1060 | 0.0709 | 0.0928 | 0.0925 |
| 32 | 0.0361 | 0.0565 | 0.0480 | 0.0511 | 0.0863 | 0.0740 | 0.0405 | 0.0194 | 0.0232 | 0.0361 |
| 33 | 0.0144 | 0.0176 | 0.0210 | 0.0188 | 0.0188 | 0.0276 | 0.0213 | 0.0163 | 0.0213 | 0.0223 |
| 34 | 0.0201 | 0.0449 | 0.0380 | 0.0395 | 0.0392 | 0.0216 | 0.0298 | 0.0392 | 0.0637 | 0.0643 |
| 35 | 0.1891 | 0.1424 | 0.1659 | 0.1512 | 0.1455 | 0.1691 | 0.0831 | 0.0311 | 0.0765 | 0.0969 |
| 36 | 0.0104 | 0.0141 | 0.0132 | 0.0141 | 0.0135 | 0.0185 | 0.0173 | 0.0129 | 0.0213 | 0.0263 |
| 37 | 0.1804 | 0.1578 | 0.1455 | 0.1066 | 0.0574 | 0.0480 | 0.1060 | 0.1615 | 0.2393 | 0.2854 |
| 38 | 0.0223 | 0.0235 | 0.0238 | 0.0245 | 0.0292 | 0.0179 | 0.0496 | 0.0590 | 0.0706 | 0.0699 |
| 39 | 0.0163 | 0.0185 | 0.0166 | 0.0144 | 0.0129 | 0.0119 | 0.0166 | 0.0176 | 0.0267 | 0.0141 |
| 40 | 0.0395 | 0.0593 | 0.0411 | 0.0480 | 0.0518 | 0.0605 | 0.0571 | 0.0546 | 0.0615 | 0.0552 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 75 | 0.0535 | 0.0533 | 0.0513 | 0.0455 | 0.0472 | 0.1200 | 0.1408 | 0.1527 | 0.1631 | 0.1523 |
| 125 | 0.0209 | 0.0228 | 0.0218 | 0.0198 | 0.0203 | 0.0334 | 0.0385 | 0.0376 | 0.0412 | 0.0398 |
| 175 | 0.0187 | 0.0211 | 0.0185 | 0.0178 | 0.0193 | 0.0230 | 0.0266 | 0.0277 | 0.0307 | 0.0319 |
| 225 | 0.0186 | 0.0232 | 0.0209 | 0.0187 | 0.0187 | 0.0188 | 0.0251 | 0.0237 | 0.0271 | 0.0319 |
| 275 | 0.0191 | 0.0213 | 0.0199 | 0.0177 | 0.0194 | 0.0175 | 0.0138 | 0.0146 | 0.0192 | 0.0233 |
| 325 | 0.0197 | 0.0242 | 0.0219 | 0.0195 | 0.0202 | 0.0167 | 0.0183 | 0.0175 | 0.0219 | 0.0264 |
| 375 | 0.0166 | 0.0223 | 0.0196 | 0.0165 | 0.0184 | 0.0160 | 0.0122 | 0.0114 | 0.0138 | 0.0229 |
| 425 | 0.0168 | 0.0218 | 0.0197 | 0.0166 | 0.0194 | 0.0139 | 0.0118 | 0.0113 | 0.0156 | 0.0220 |
| 475 | 0.0171 | 0.0216 | 0.0193 | 0.0161 | 0.0187 | 0.0120 | 0.0119 | 0.0119 | 0.0152 | 0.0221 |
| 525 | 0.0188 | 0.0242 | 0.0205 | 0.0187 | 0.0200 | 0.0138 | 0.0147 | 0.0146 | 0.0176 | 0.0262 |
| 575 | 0.0193 | 0.0236 | 0.0214 | 0.0195 | 0.0210 | 0.0145 | 0.0110 | 0.0094 | 0.0145 | 0.0208 |
| 625 | 0.0189 | 0.0246 | 0.0216 | 0.0194 | 0.0207 | 0.0134 | 0.0127 | 0.0117 | 0.0150 | 0.0214 |
| 675 | 0.0186 | 0.0238 | 0.0203 | 0.0176 | 0.0198 | 0.0144 | 0.0107 | 0.0090 | 0.0133 | 0.0222 |
| 725 | 0.0187 | 0.0229 | 0.0209 | 0.0183 | 0.0205 | 0.0127 | 0.0089 | 0.0087 | 0.0126 | 0.0199 |
| 775 | 0.0189 | 0.0221 | 0.0206 | 0.0185 | 0.0207 | 0.0117 | 0.0094 | 0.0087 | 0.0125 | 0.0197 |
| 825 | 0.0208 | 0.0251 | 0.0220 | 0.0193 | 0.0220 | 0.0160 | 0.0140 | 0.0132 | 0.0153 | 0.0249 |
| 875 | 0.0240 | 0.0265 | 0.0249 | 0.0226 | 0.0248 | 0.0181 | 0.0155 | 0.0150 | 0.0188 | 0.0233 |
| 925 | 0.0227 | 0.0272 | 0.0255 | 0.0219 | 0.0249 | 0.0164 | 0.0134 | 0.0151 | 0.0167 | 0.0217 |
| 975 | 0.0227 | 0.0286 | 0.0224 | 0.0214 | 0.0267 | 0.0221 | 0.0196 | 0.0179 | 0.0194 | 0.0305 |
| 1025 | 0.0284 | 0.0353 | 0.0320 | 0.0323 | 0.0331 | 0.0260 | 0.0236 | 0.0255 | 0.0304 | 0.0296 |
| 1075 | 0.0222 | 0.0286 | 0.0281 | 0.0234 | 0.0254 | 0.0157 | 0.0105 | 0.0119 | 0.0148 | 0.0212 |
| 1125 | 0.0203 | 0.0294 | 0.0257 | 0.0213 | 0.0243 | 0.0154 | 0.0118 | 0.0119 | 0.0154 | 0.0243 |
| 1175 | 0.0218 | 0.0297 | 0.0278 | 0.0231 | 0.0261 | 0.0165 | 0.0130 | 0.0122 | 0.0148 | 0.0213 |
| 1225 | 0.0214 | 0.0308 | 0.0287 | 0.0241 | 0.0262 | 0.0169 | 0.0101 | 0.0104 | 0.0130 | 0.0200 |
| 1275 | 0.0210 | 0.0296 | 0.0265 | 0.0235 | 0.0260 | 0.0186 | 0.0142 | 0.0125 | 0.0149 | 0.0240 |
| 1325 | 0.0207 | 0.0275 | 0.0261 | 0.0241 | 0.0286 | 0.0155 | 0.0104 | 0.0102 | 0.0130 | 0.0201 |
| 1375 | 0.0203 | 0.0267 | 0.0254 | 0.0243 | 0.0301 | 0.0153 | 0.0103 | 0.0093 | 0.0125 | 0.0201 |
| 1425 | 0.0216 | 0.0285 | 0.0261 | 0.0261 | 0.0307 | 0.0195 | 0.0119 | 0.0108 | 0.0135 | 0.0230 |
| 1475 | 0.0238 | 0.0279 | 0.0277 | 0.0279 | 0.0336 | 0.0202 | 0.0144 | 0.0135 | 0.0152 | 0.0215 |
| 1525 | 0.0234 | 0.0291 | 0.0282 | 0.0282 | 0.0352 | 0.0249 | 0.0131 | 0.0129 | 0.0148 | 0.0224 |
| 1575 | 0.0216 | 0.0280 | 0.0265 | 0.0265 | 0.0333 | 0.0280 | 0.0181 | 0.0162 | 0.0167 | 0.0261 |
| 1625 | 0.0210 | 0.0265 | 0.0259 | 0.0262 | 0.0341 | 0.0246 | 0.0140 | 0.0141 | 0.0148 | 0.0234 |
| 1675 | 0.0201 | 0.0246 | 0.0225 | 0.0243 | 0.0342 | 0.0245 | 0.0167 | 0.0157 | 0.0167 | 0.0265 |
| 1725 | 0.0205 | 0.0250 | 0.0216 | 0.0219 | 0.0324 | 0.0308 | 0.0175 | 0.0186 | 0.0206 | 0.0288 |
| 1775 | 0.0209 | 0.0229 | 0.0195 | 0.0187 | 0.0272 | 0.0287 | 0.0185 | 0.0208 | 0.0221 | 0.0270 |
| 1825 | 0.0201 | 0.0212 | 0.0196 | 0.0172 | 0.0214 | 0.0204 | 0.0132 | 0.0165 | 0.0207 | 0.0310 |
| 1875 | 0.0177 | 0.0203 | 0.0168 | 0.0138 | 0.0161 | 0.0187 | 0.0152 | 0.0204 | 0.0254 | 0.0383 |
| 1925 | 0.0173 | 0.0190 | 0.0154 | 0.0128 | 0.0160 | 0.0161 | 0.0136 | 0.0188 | 0.0220 | 0.0347 |
| 1975 | 0.0182 | 0.0191 | 0.0147 | 0.0137 | 0.0163 | 0.0148 | 0.0144 | 0.0174 | 0.0207 | 0.0363 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2.1 | 0.0119 | 0.0128 | 0.0127 | 0.0106 | 0.0097 | 0.0085 | 0.0061 | 0.0080 | 0.0084 | 0.0145 |
| 2.3 | 0.0378 | 0.0248 | 0.0328 | 0.0306 | 0.0293 | 0.0132 | 0.0164 | 0.0253 | 0.0334 | 0.0466 |
| 2.5 | 0.0356 | 0.0218 | 0.0235 | 0.0215 | 0.0234 | 0.0109 | 0.0175 | 0.0264 | 0.0325 | 0.0467 |
| 2.7 | 0.0109 | 0.0088 | 0.0095 | 0.0084 | 0.0081 | 0.0066 | 0.0047 | 0.0055 | 0.0068 | 0.0076 |
| 2.9 | 0.0327 | 0.0255 | 0.0210 | 0.0279 | 0.0279 | 0.0089 | 0.0083 | 0.0095 | 0.0088 | 0.0134 |
| 3.1 | 0.0293 | 0.0199 | 0.0190 | 0.0215 | 0.0222 | 0.0075 | 0.0062 | 0.0086 | 0.0126 | 0.0192 |
| 3.3 | 0.0063 | 0.0073 | 0.0066 | 0.0069 | 0.0069 | 0.0056 | 0.0055 | 0.0051 | 0.0071 | 0.0116 |
| 3.5 | 0.0278 | 0.0210 | 0.0190 | 0.0151 | 0.0205 | 0.0081 | 0.0094 | 0.0142 | 0.0126 | 0.0081 |
| 3.7 | 0.0177 | 0.0191 | 0.0148 | 0.0123 | 0.0172 | 0.0072 | 0.0073 | 0.0090 | 0.0091 | 0.0156 |
| 3.9 | 0.0062 | 0.0063 | 0.0066 | 0.0073 | 0.0078 | 0.0058 | 0.0045 | 0.0044 | 0.0053 | 0.0095 |
| 4.1 | 0.0198 | 0.0229 | 0.0150 | 0.0159 | 0.0135 | 0.0097 | 0.0058 | 0.0134 | 0.0193 | 0.0206 |
| 4.3 | 0.0216 | 0.0211 | 0.0211 | 0.0223 | 0.0168 | 0.0134 | 0.0050 | 0.0044 | 0.0077 | 0.0173 |
| 4.5 | 0.0060 | 0.0069 | 0.0063 | 0.0066 | 0.0074 | 0.0045 | 0.0045 | 0.0044 | 0.0042 | 0.0053 |
| 4.7 | 0.0199 | 0.0195 | 0.0154 | 0.0173 | 0.0118 | 0.0075 | 0.0061 | 0.0056 | 0.0096 | 0.0156 |
| 4.9 | 0.0174 | 0.0180 | 0.0150 | 0.0153 | 0.0098 | 0.0067 | 0.0059 | 0.0042 | 0.0041 | 0.0065 |
| 5.1 | 0.0040 | 0.0052 | 0.0046 | 0.0051 | 0.0049 | 0.0034 | 0.0033 | 0.0033 | 0.0035 | 0.0043 |
| 5.3 | 0.0077 | 0.0093 | 0.0089 | 0.0062 | 0.0056 | 0.0058 | 0.0051 | 0.0048 | 0.0056 | 0.0080 |
| 5.5 | 0.0106 | 0.0104 | 0.0103 | 0.0098 | 0.0078 | 0.0060 | 0.0065 | 0.0070 | 0.0064 | 0.0071 |
| 5.7 | 0.0044 | 0.0045 | 0.0041 | 0.0043 | 0.0045 | 0.0036 | 0.0040 | 0.0041 | 0.0044 | 0.0040 |
| 5.9 | 0.0556 | 0.0519 | 0.0502 | 0.0520 | 0.0527 | 0.0518 | 0.0397 | 0.0367 | 0.0366 | 0.0390 |
| 6.1 | 0.0308 | 0.0306 | 0.0327 | 0.0366 | 0.0363 | 0.0337 | 0.0285 | 0.0270 | 0.0240 | 0.0288 |
| 6.3 | 0.0038 | 0.0031 | 0.0032 | 0.0032 | 0.0034 | 0.0032 | 0.0031 | 0.0032 | 0.0033 | 0.0036 |
| 6.5 | 0.0042 | 0.0050 | 0.0064 | 0.0069 | 0.0064 | 0.0074 | 0.0107 | 0.0101 | 0.0089 | 0.0110 |
| 6.7 | 0.0041 | 0.0039 | 0.0041 | 0.0043 | 0.0033 | 0.0034 | 0.0056 | 0.0053 | 0.0038 | 0.0037 |
| 6.9 | 0.0035 | 0.0034 | 0.0032 | 0.0035 | 0.0033 | 0.0029 | 0.0027 | 0.0029 | 0.0031 | 0.0038 |
| 7.1 | 0.0042 | 0.0035 | 0.0045 | 0.0037 | 0.0039 | 0.0031 | 0.0037 | 0.0041 | 0.0036 | 0.0034 |
| 7.3 | 0.0032 | 0.0036 | 0.0038 | 0.0033 | 0.0031 | 0.0030 | 0.0034 | 0.0032 | 0.0031 | 0.0038 |
| 7.5 | 0.0026 | 0.0030 | 0.0043 | 0.0033 | 0.0032 | 0.0034 | 0.0030 | 0.0028 | 0.0026 | 0.0042 |
| 7.7 | 0.0030 | 0.0033 | 0.0031 | 0.0029 | 0.0027 | 0.0032 | 0.0033 | 0.0032 | 0.0032 | 0.0031 |
| 7.9 | 0.0030 | 0.0029 | 0.0035 | 0.0032 | 0.0035 | 0.0034 | 0.0030 | 0.0032 | 0.0030 | 0.0029 |
| 8.1 | 0.0033 | 0.0029 | 0.0030 | 0.0033 | 0.0040 | 0.0028 | 0.0030 | 0.0028 | 0.0031 | 0.0075 |
| 8.3 | 0.0029 | 0.0045 | 0.0028 | 0.0029 | 0.0030 | 0.0026 | 0.0031 | 0.0030 | 0.0029 | 0.0029 |
| 8.5 | 0.0027 | 0.0027 | 0.0034 | 0.0028 | 0.0034 | 0.0029 | 0.0032 | 0.0055 | 0.0026 | 0.0030 |
| 8.7 | 0.0028 | 0.0027 | 0.0026 | 0.0031 | 0.0041 | 0.0027 | 0.0027 | 0.0027 | 0.0028 | 0.0080 |
| 8.9 | 0.0028 | 0.0030 | 0.0026 | 0.0027 | 0.0028 | 0.0028 | 0.0026 | 0.0026 | 0.0030 | 0.0028 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Model: MID 25KTL3-X | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2 | 0.1043 | 0.1413 | 0.1493 | 0.1904 | 0.2117 | 0.2015 | 0.2448 | 0.3456 | 0.7102 | 0.4689 |
| 3 | 0.0127 | 0.0248 | 0.0257 | 0.0455 | 0.0494 | 0.0304 | 0.0373 | 0.0892 | 0.2481 | 0.1212 |
| 4 | 0.1546 | 0.1929 | 0.1907 | 0.1951 | 0.2131 | 0.2250 | 0.2652 | 0.2998 | 0.4560 | 0.3933 |
| 5 | 0.5043 | 0.7579 | 0.6315 | 0.4449 | 0.3643 | 0.3428 | 0.3787 | 0.3966 | 0.5460 | 0.5219 |
| 6 | 0.0152 | 0.0177 | 0.0174 | 0.0268 | 0.0287 | 0.0149 | 0.0135 | 0.0378 | 0.1143 | 0.0516 |
| 7 | 0.4491 | 0.5849 | 0.5465 | 0.4217 | 0.3262 | 0.3141 | 0.3196 | 0.3274 | 0.4306 | 0.4402 |
| 8 | 0.0958 | 0.1049 | 0.0994 | 0.1005 | 0.1137 | 0.1132 | 0.1289 | 0.1452 | 0.2214 | 0.1987 |
| 9 | 0.0138 | 0.0207 | 0.0246 | 0.0279 | 0.0259 | 0.0171 | 0.0221 | 0.0320 | 0.0781 | 0.0422 |
| 10 | 0.0447 | 0.0243 | 0.0248 | 0.0298 | 0.0442 | 0.0348 | 0.0351 | 0.0444 | 0.0949 | 0.0726 |
| 11 | 0.3387 | 0.2150 | 0.2818 | 0.2970 | 0.2134 | 0.1686 | 0.1408 | 0.1206 | 0.1593 | 0.1341 |
| 12 | 0.0072 | 0.0110 | 0.0108 | 0.0144 | 0.0177 | 0.0132 | 0.0102 | 0.0235 | 0.0610 | 0.0309 |
| 13 | 0.2719 | 0.1982 | 0.1962 | 0.2556 | 0.2100 | 0.1871 | 0.1686 | 0.1518 | 0.1808 | 0.1626 |
| 14 | 0.0237 | 0.0298 | 0.0378 | 0.0317 | 0.0475 | 0.0420 | 0.0348 | 0.0425 | 0.0883 | 0.0767 |
| 15 | 0.0152 | 0.0182 | 0.0207 | 0.0199 | 0.0221 | 0.0243 | 0.0293 | 0.0370 | 0.0671 | 0.0486 |
| 16 | 0.0511 | 0.0370 | 0.0450 | 0.0381 | 0.0422 | 0.0453 | 0.0483 | 0.0585 | 0.1007 | 0.0949 |
| 17 | 0.1717 | 0.2365 | 0.1604 | 0.1722 | 0.1835 | 0.1559 | 0.1405 | 0.1168 | 0.1308 | 0.1110 |
| 18 | 0.0080 | 0.0138 | 0.0144 | 0.0168 | 0.0188 | 0.0130 | 0.0097 | 0.0152 | 0.0411 | 0.0201 |
| 19 | 0.2051 | 0.2451 | 0.2081 | 0.1697 | 0.1786 | 0.1466 | 0.1209 | 0.0966 | 0.1013 | 0.0834 |
| 20 | 0.0433 | 0.0414 | 0.0362 | 0.0475 | 0.0431 | 0.0386 | 0.0420 | 0.0604 | 0.0908 | 0.0927 |
| 21 | 0.0110 | 0.0193 | 0.0196 | 0.0229 | 0.0188 | 0.0226 | 0.0279 | 0.0298 | 0.0524 | 0.0381 |
| 22 | 0.0213 | 0.0295 | 0.0293 | 0.0353 | 0.0414 | 0.0389 | 0.0301 | 0.0386 | 0.0679 | 0.0654 |
| 23 | 0.1863 | 0.1223 | 0.1634 | 0.0966 | 0.1496 | 0.1176 | 0.0914 | 0.0632 | 0.0662 | 0.0367 |
| 24 | 0.0088 | 0.0130 | 0.0144 | 0.0144 | 0.0177 | 0.0168 | 0.0099 | 0.0168 | 0.0348 | 0.0190 |
| 25 | 0.1499 | 0.1256 | 0.1452 | 0.1325 | 0.1943 | 0.1800 | 0.1546 | 0.1231 | 0.1295 | 0.1107 |
| 26 | 0.0113 | 0.0282 | 0.0257 | 0.0494 | 0.0461 | 0.0351 | 0.0243 | 0.0337 | 0.0624 | 0.0651 |
| 27 | 0.0110 | 0.0116 | 0.0160 | 0.0168 | 0.0132 | 0.0157 | 0.0163 | 0.0235 | 0.0400 | 0.0284 |
| 28 | 0.0190 | 0.0152 | 0.0221 | 0.0483 | 0.0508 | 0.0406 | 0.0351 | 0.0527 | 0.0789 | 0.0889 |
| 29 | 0.1250 | 0.1720 | 0.1303 | 0.1471 | 0.1960 | 0.1943 | 0.1587 | 0.1267 | 0.1267 | 0.1134 |
| 30 | 0.0102 | 0.0121 | 0.0127 | 0.0155 | 0.0196 | 0.0221 | 0.0146 | 0.0188 | 0.0323 | 0.0179 |
| 31 | 0.1582 | 0.1584 | 0.1532 | 0.1471 | 0.1673 | 0.1082 | 0.0511 | 0.0604 | 0.0632 | 0.0403 |
| 32 | 0.0298 | 0.0497 | 0.0453 | 0.0574 | 0.0704 | 0.0497 | 0.0287 | 0.0373 | 0.0643 | 0.0762 |
| 33 | 0.0121 | 0.0130 | 0.0152 | 0.0141 | 0.0152 | 0.0155 | 0.0127 | 0.0199 | 0.0367 | 0.0268 |
| 34 | 0.0166 | 0.0436 | 0.0425 | 0.0425 | 0.0298 | 0.0157 | 0.0144 | 0.0497 | 0.0754 | 0.0828 |
| 35 | 0.1628 | 0.1093 | 0.1419 | 0.1226 | 0.1391 | 0.1013 | 0.0182 | 0.0604 | 0.0880 | 0.0850 |
| 36 | 0.0083 | 0.0124 | 0.0119 | 0.0130 | 0.0144 | 0.0152 | 0.0121 | 0.0226 | 0.0345 | 0.0218 |
| 37 | 0.1568 | 0.1101 | 0.1206 | 0.0748 | 0.0356 | 0.0740 | 0.1311 | 0.1918 | 0.2388 | 0.2186 |
| 38 | 0.0182 | 0.0270 | 0.0287 | 0.0262 | 0.0160 | 0.0262 | 0.0353 | 0.0397 | 0.0624 | 0.0784 |
| 39 | 0.0149 | 0.0135 | 0.0132 | 0.0124 | 0.0116 | 0.0141 | 0.0157 | 0.0218 | 0.0279 | 0.0188 |
| 40 | 0.0339 | 0.0442 | 0.0381 | 0.0428 | 0.0560 | 0.0458 | 0.0447 | 0.0533 | 0.0657 | 0.0704 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 75 | 0.1062 | 0.1355 | 0.2906 | 0.3738 | 0.1414 | 0.1315 | 0.6041 | 1.7986 | 0.8312 | 0.6815 |
| 125 | 0.0394 | 0.0411 | 0.0794 | 0.0987 | 0.0353 | 0.0342 | 0.1539 | 0.4784 | 0.2056 | 0.1612 |
| 175 | 0.0294 | 0.0321 | 0.0529 | 0.0641 | 0.0264 | 0.0240 | 0.0985 | 0.3036 | 0.1305 | 0.0988 |
| 225 | 0.0349 | 0.0299 | 0.0440 | 0.0477 | 0.0201 | 0.0203 | 0.0793 | 0.2324 | 0.0969 | 0.0790 |
| 275 | 0.0295 | 0.0296 | 0.0391 | 0.0449 | 0.0195 | 0.0131 | 0.0571 | 0.1865 | 0.0786 | 0.0644 |
| 325 | 0.0286 | 0.0278 | 0.0376 | 0.0426 | 0.0168 | 0.0178 | 0.0528 | 0.1578 | 0.0731 | 0.0584 |
| 375 | 0.0253 | 0.0264 | 0.0315 | 0.0340 | 0.0163 | 0.0128 | 0.0462 | 0.1407 | 0.0577 | 0.0500 |
| 425 | 0.0201 | 0.0229 | 0.0294 | 0.0302 | 0.0151 | 0.0121 | 0.0382 | 0.1195 | 0.0518 | 0.0444 |
| 475 | 0.0199 | 0.0234 | 0.0273 | 0.0276 | 0.0156 | 0.0127 | 0.0358 | 0.1089 | 0.0477 | 0.0404 |
| 525 | 0.0232 | 0.0251 | 0.0352 | 0.0294 | 0.0152 | 0.0136 | 0.0368 | 0.1031 | 0.0472 | 0.0413 |
| 575 | 0.0207 | 0.0254 | 0.0271 | 0.0299 | 0.0166 | 0.0119 | 0.0323 | 0.0912 | 0.0406 | 0.0359 |
| 625 | 0.0267 | 0.0256 | 0.0372 | 0.0313 | 0.0150 | 0.0130 | 0.0324 | 0.0886 | 0.0414 | 0.0357 |
| 675 | 0.0199 | 0.0233 | 0.0258 | 0.0262 | 0.0161 | 0.0115 | 0.0298 | 0.0833 | 0.0379 | 0.0324 |
| 725 | 0.0189 | 0.0231 | 0.0243 | 0.0241 | 0.0148 | 0.0112 | 0.0271 | 0.0775 | 0.0355 | 0.0309 |
| 775 | 0.0200 | 0.0223 | 0.0240 | 0.0230 | 0.0144 | 0.0112 | 0.0253 | 0.0721 | 0.0345 | 0.0295 |
| 825 | 0.0338 | 0.0249 | 0.0308 | 0.0279 | 0.0146 | 0.0127 | 0.0294 | 0.0714 | 0.0366 | 0.0305 |
| 875 | 0.0233 | 0.0249 | 0.0269 | 0.0267 | 0.0177 | 0.0143 | 0.0266 | 0.0662 | 0.0323 | 0.0276 |
| 925 | 0.0379 | 0.0276 | 0.0337 | 0.0331 | 0.0180 | 0.0162 | 0.0278 | 0.0641 | 0.0361 | 0.0292 |
| 975 | 0.0239 | 0.0249 | 0.0253 | 0.0257 | 0.0192 | 0.0146 | 0.0300 | 0.0643 | 0.0374 | 0.0309 |
| 1025 | 0.0205 | 0.0257 | 0.0260 | 0.0249 | 0.0206 | 0.0227 | 0.0265 | 0.0639 | 0.0344 | 0.0298 |
| 1075 | 0.0301 | 0.0306 | 0.0322 | 0.0347 | 0.0278 | 0.0225 | 0.0340 | 0.0667 | 0.0455 | 0.0374 |
| 1125 | 0.0311 | 0.0335 | 0.0335 | 0.0340 | 0.0205 | 0.0159 | 0.0376 | 0.0640 | 0.0355 | 0.0344 |
| 1175 | 0.0221 | 0.0284 | 0.0269 | 0.0260 | 0.0186 | 0.0143 | 0.0264 | 0.0553 | 0.0288 | 0.0276 |
| 1225 | 0.0280 | 0.0286 | 0.0321 | 0.0367 | 0.0184 | 0.0128 | 0.0288 | 0.0532 | 0.0314 | 0.0255 |
| 1275 | 0.0219 | 0.0262 | 0.0250 | 0.0256 | 0.0203 | 0.0140 | 0.0266 | 0.0534 | 0.0285 | 0.0246 |
| 1325 | 0.0203 | 0.0257 | 0.0250 | 0.0246 | 0.0185 | 0.0127 | 0.0226 | 0.0507 | 0.0259 | 0.0233 |
| 1375 | 0.0205 | 0.0247 | 0.0260 | 0.0260 | 0.0183 | 0.0126 | 0.0228 | 0.0490 | 0.0279 | 0.0225 |
| 1425 | 0.0295 | 0.0247 | 0.0323 | 0.0361 | 0.0207 | 0.0142 | 0.0316 | 0.0509 | 0.0291 | 0.0247 |
| 1475 | 0.0226 | 0.0268 | 0.0275 | 0.0283 | 0.0222 | 0.0149 | 0.0249 | 0.0485 | 0.0265 | 0.0225 |
| 1525 | 0.0296 | 0.0284 | 0.0344 | 0.0378 | 0.0248 | 0.0153 | 0.0275 | 0.0478 | 0.0259 | 0.0217 |
| 1575 | 0.0217 | 0.0249 | 0.0260 | 0.0284 | 0.0284 | 0.0175 | 0.0301 | 0.0500 | 0.0288 | 0.0225 |
| 1625 | 0.0189 | 0.0242 | 0.0245 | 0.0283 | 0.0243 | 0.0165 | 0.0253 | 0.0464 | 0.0256 | 0.0222 |
| 1675 | 0.0199 | 0.0220 | 0.0227 | 0.0265 | 0.0234 | 0.0163 | 0.0307 | 0.0475 | 0.0282 | 0.0225 |
| 1725 | 0.0238 | 0.0210 | 0.0250 | 0.0306 | 0.0262 | 0.0187 | 0.0370 | 0.0498 | 0.0302 | 0.0234 |
| 1775 | 0.0187 | 0.0200 | 0.0194 | 0.0205 | 0.0242 | 0.0192 | 0.0338 | 0.0496 | 0.0283 | 0.0236 |
| 1825 | 0.0242 | 0.0207 | 0.0207 | 0.0190 | 0.0200 | 0.0158 | 0.0476 | 0.0523 | 0.0429 | 0.0274 |
| 1875 | 0.0177 | 0.0176 | 0.0150 | 0.0143 | 0.0156 | 0.0147 | 0.0387 | 0.0536 | 0.0355 | 0.0256 |
| 1925 | 0.0163 | 0.0175 | 0.0148 | 0.0142 | 0.0126 | 0.0128 | 0.0328 | 0.0474 | 0.0304 | 0.0244 |
| 1975 | 0.0184 | 0.0167 | 0.0154 | 0.0168 | 0.0116 | 0.0118 | 0.0274 | 0.0464 | 0.0330 | 0.0248 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220027

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] | I [%] |
| 2.1 | 0.0100 | 0.0096 | 0.0111 | 0.0105 | 0.0105 | 0.0082 | 0.0120 | 0.0223 | 0.0150 | 0.0131 |
| 2.3 | 0.0442 | 0.0279 | 0.0365 | 0.0402 | 0.0185 | 0.0206 | 0.0281 | 0.0389 | 0.0501 | 0.0831 |
| 2.5 | 0.0292 | 0.0261 | 0.0297 | 0.0328 | 0.0165 | 0.0186 | 0.0294 | 0.0407 | 0.0481 | 0.0689 |
| 2.7 | 0.0082 | 0.0074 | 0.0078 | 0.0080 | 0.0084 | 0.0058 | 0.0072 | 0.0153 | 0.0084 | 0.0071 |
| 2.9 | 0.0365 | 0.0264 | 0.0218 | 0.0293 | 0.0175 | 0.0086 | 0.0162 | 0.0261 | 0.0253 | 0.0226 |
| 3.1 | 0.0241 | 0.0189 | 0.0169 | 0.0237 | 0.0174 | 0.0062 | 0.0148 | 0.0271 | 0.0280 | 0.0261 |
| 3.3 | 0.0074 | 0.0070 | 0.0091 | 0.0084 | 0.0058 | 0.0051 | 0.0064 | 0.0131 | 0.0086 | 0.0079 |
| 3.5 | 0.0258 | 0.0246 | 0.0222 | 0.0178 | 0.0145 | 0.0066 | 0.0103 | 0.0188 | 0.0168 | 0.0134 |
| 3.7 | 0.0184 | 0.0195 | 0.0213 | 0.0167 | 0.0150 | 0.0091 | 0.0128 | 0.0233 | 0.0261 | 0.0242 |
| 3.9 | 0.0076 | 0.0065 | 0.0079 | 0.0072 | 0.0085 | 0.0058 | 0.0064 | 0.0114 | 0.0084 | 0.0072 |
| 4.1 | 0.0254 | 0.0218 | 0.0141 | 0.0133 | 0.0111 | 0.0062 | 0.0138 | 0.0227 | 0.0215 | 0.0166 |
| 4.3 | 0.0215 | 0.0256 | 0.0177 | 0.0171 | 0.0174 | 0.0053 | 0.0101 | 0.0209 | 0.0267 | 0.0233 |
| 4.5 | 0.0070 | 0.0064 | 0.0072 | 0.0058 | 0.0054 | 0.0054 | 0.0059 | 0.0103 | 0.0077 | 0.0075 |
| 4.7 | 0.0177 | 0.0191 | 0.0165 | 0.0145 | 0.0085 | 0.0048 | 0.0072 | 0.0176 | 0.0194 | 0.0193 |
| 4.9 | 0.0193 | 0.0202 | 0.0184 | 0.0144 | 0.0076 | 0.0048 | 0.0053 | 0.0123 | 0.0114 | 0.0096 |
| 5.1 | 0.0051 | 0.0053 | 0.0059 | 0.0057 | 0.0041 | 0.0037 | 0.0049 | 0.0090 | 0.0054 | 0.0053 |
| 5.3 | 0.0072 | 0.0086 | 0.0074 | 0.0069 | 0.0049 | 0.0034 | 0.0051 | 0.0100 | 0.0104 | 0.0103 |
| 5.5 | 0.0106 | 0.0097 | 0.0080 | 0.0076 | 0.0043 | 0.0039 | 0.0040 | 0.0091 | 0.0079 | 0.0068 |
| 5.7 | 0.0046 | 0.0050 | 0.0050 | 0.0051 | 0.0031 | 0.0028 | 0.0041 | 0.0085 | 0.0052 | 0.0048 |
| 5.9 | 0.0060 | 0.0064 | 0.0062 | 0.0048 | 0.0041 | 0.0044 | 0.0049 | 0.0080 | 0.0062 | 0.0064 |
| 6.1 | 0.0068 | 0.0059 | 0.0067 | 0.0054 | 0.0040 | 0.0036 | 0.0043 | 0.0078 | 0.0063 | 0.0056 |
| 6.3 | 0.0032 | 0.0033 | 0.0041 | 0.0038 | 0.0030 | 0.0033 | 0.0035 | 0.0070 | 0.0044 | 0.0040 |
| 6.5 | 0.0039 | 0.0040 | 0.0043 | 0.0046 | 0.0034 | 0.0033 | 0.0042 | 0.0072 | 0.0047 | 0.0043 |
| 6.7 | 0.0048 | 0.0040 | 0.0040 | 0.0045 | 0.0032 | 0.0032 | 0.0039 | 0.0068 | 0.0050 | 0.0044 |
| 6.9 | 0.0038 | 0.0037 | 0.0038 | 0.0038 | 0.0029 | 0.0037 | 0.0037 | 0.0071 | 0.0047 | 0.0042 |
| 7.1 | 0.0036 | 0.0031 | 0.0037 | 0.0037 | 0.0036 | 0.0033 | 0.0036 | 0.0073 | 0.0045 | 0.0039 |
| 7.3 | 0.0033 | 0.0033 | 0.0034 | 0.0034 | 0.0035 | 0.0034 | 0.0035 | 0.0071 | 0.0049 | 0.0042 |
| 7.5 | 0.0038 | 0.0035 | 0.0036 | 0.0038 | 0.0033 | 0.0029 | 0.0034 | 0.0061 | 0.0042 | 0.0039 |
| 7.7 | 0.0034 | 0.0035 | 0.0035 | 0.0036 | 0.0033 | 0.0033 | 0.0036 | 0.0065 | 0.0043 | 0.0040 |
| 7.9 | 0.0029 | 0.0032 | 0.0030 | 0.0032 | 0.0027 | 0.0032 | 0.0034 | 0.0059 | 0.0039 | 0.0037 |
| 8.1 | 0.0031 | 0.0034 | 0.0034 | 0.0033 | 0.0029 | 0.0029 | 0.0036 | 0.0059 | 0.0039 | 0.0037 |
| 8.3 | 0.0035 | 0.0031 | 0.0031 | 0.0032 | 0.0046 | 0.0029 | 0.0035 | 0.0067 | 0.0048 | 0.0035 |
| 8.5 | 0.0030 | 0.0029 | 0.0043 | 0.0033 | 0.0031 | 0.0039 | 0.0033 | 0.0058 | 0.0056 | 0.0036 |
| 8.7 | 0.0027 | 0.0034 | 0.0034 | 0.0033 | 0.0028 | 0.0027 | 0.0038 | 0.0059 | 0.0039 | 0.0038 |
| 8.9 | 0.0036 | 0.0030 | 0.0032 | 0.0032 | 0.0032 | 0.0028 | 0.0032 | 0.0060 | 0.0045 | 0.0036 |

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