

Unit Certificate (Einheitenzertifikat)

Certificate No. (Bescheinigungs-Nr.): CN-PV-220033

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
Hybrid inverter / AC Coupled inverter

Product:
(Produkt)

SPH 4000TL3 BH-UP, SPH 5000TL3 BH-UP, SPH 6000TL3 BH-UP,
SPH 7000TL3 BH-UP, SPH 8000TL3 BH-UP, SPH 10000TL3 BH-UP
SPA 4000TL3 BH-UP, SPA 5000TL3 BH-UP, SPA 6000TL3 BH-UP,
SPA 7000TL3 BH-UP, SPA 8000TL3 BH-UP, SPA 10000TL3 BH-UP
3.997KW; 4.980KW; 5.963KW; 6.934KW; 7.937KW; 9.905KW

Model:
(Modell)

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

4.289KVA; 5.157KVA; 6.140KVA; 7.122KVA; 8.131KVA; 10.097KVA

Rated voltage:
(Bemessungsspannung)

3W/N/PE 230Vac/400Vac

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

6.1A; 7.6A; 9.1A; 10.6A; 12.1A; 15.2A

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

6.1A; 7.6A; 9.1A; 10.6A; 12.1A; 15.2A

Tested according to:
(Geprüft nach)

VDE-AR-N 4105:2018-11 Erzeugungsanlagen am Niederspannungsnetz
Technische Mindestanforderungen für Anschluss und Parallelbetrieb
Von Erzeugungsanlagen am Niederspannungsnetz
DIN VDE V 0124-100 (VDE V 0124-100):2020-06 "Netzintegration von
Erzeugungsanlagen – Niederspannung"
Prüfanforderungen an Erzeugungseinheiten vorgesehen zum Anschluss
und Parallelbetrieb am Niederspannungsnetz
220118075GZU-001

Test Report No.:
(Prüfbericht-Nr.)

Certificate Issuing Office:
(Stelle des ausgestellten Zertifikats)

Intertek Testing Services Ltd. Shanghai
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-220033

| Model | SPH 4000 TL3 BH-UP | SPH 5000 TL3 BH-UP | SPH 6000 TL3 BH-UP | SPH 7000 TL3 BH-UP | SPH 8000 TL3 BH-UP | SPH 10000 TL3 BH-UP |
|---|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Max. DC input voltage (Max. DC-Eingangsspannung) | 1000V | | | | | |
| Max. PV Isc | 16.9/16.9A | | | | | |
| Battery type (Batterietyp) | lithium battery / Lead-acid battery | | | | | |
| Battery voltage range (Batteriespannungsbereich) | 100~550V | | | | | |
| Max. charging current (Max. Ladestrom) | 25A | | | | | |
| Max. discharge current (Max. Entladestrom) | 25A | | | | | |
| Max. charging and discharging power (Max. Lade- und Entladeleistung) | 4000W | 5000W | 6000W | 7000W | 8000W | 10000W |
| Nominal mains voltage (Netzspannung Batteriespannungsbereich) | 3W+N+PE , 230V/400V | | | | | |
| Rated output voltage (Backup) (Nennausgangsspannung)(Backup) | 3W+N+PE , 230V/400V | | | | | |
| Max. output current (Max. Ausgangsstrom) | 6.1A | 7.6A | 9.1A | 10.6A | 12.1A | 15.2A |
| Nominal frequency (Nominale Netzfrequenz) | 50/60Hz | | | | | |
| Power factor (Leistungsfaktor) | 0.8leading ~ 0.8lagging | | | | | |
| Nominal output power (Nennausgangsleistung) | 4000W | 5000W | 6000W | 7000W | 8000W | 10000W |
| Backup rated current (Backup Bemessungsstrom) | 6.1A | 7.6A | 9.1A | 10.6A | 12.1A | 15.2A |
| Backup rated power (Backup-Nennleistung) | 4000W | 5000W | 6000W | 7000W | 8000W | 10000W |
| Ingress protection (Schutzart) | IP 65 | | | | | |
| Protection class (Schutzklasse) | Class I | | | | | |
| Operating temperature range (Betriebstemperaturbereich) | -25 °C ~ +60 °C | | | | | |
| FW-Version | YA1.0 | | | | | |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Zertifikatsnummer): CN-PV-220033

| Model | SPA 4000 TL3 BH-UP | SPA 5000 TL3 BH-UP | SPA 6000 TL3 BH-UP | SPA 7000 TL3 BH-UP | SPA 8000 TL3 BH-UP | SPA 10000 TL3 BH-UP |
|-------------------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| Output data (/Input data (AC)) | | | | | | |
| AC nominal power | 4000W | 5000W | 6000W | 7000W | 8000W | 10000W |
| Max. AC apparent power | 4000VA | 5000VA | 6000VA | 7000VA | 8000VA | 10000VA |
| Nominal AC voltage | 3W+N+PE , 230V/400V; | | | | | |
| AC grid frequency | 50/60Hz; | | | | | |
| Max. output current | 6.1A | 7.6A | 9.1A | 10.6A | 12.1A | 15.2A |
| Power factor | 0.8leading ~ 0.8lagging | | | | | |
| Stand alone(AC power) | | | | | | |
| AC nominal output power | 4000W | 5000W | 6000W | 7000W | 8000W | 10000W |
| Max. AC apparent power | 4000VA | 5000 VA | 6000 VA | 7000 VA | 8000 VA | 10000 VA |
| Nominal AC voltage | 3W+N+PE , 230V/400V; | | | | | |
| Nominal AC frequency | 50/60Hz | | | | | |
| Max. output current | 6.1A | 7.6A | 9.1A | 10.6A | 12.1A | 15.2A |
| Battery data (DC) | | | | | | |
| Battery voltage range | 100~550V | | | | | |
| Max. charging / discharging current | 25A | | | | | |
| Type of battery | lithium battery / Lead-acid battery | | | | | |
| Capacity of battery | 7.68~76.8kWh | | | | | |
| Others | | | | | | |
| Technology | Transformerless | | | | | |
| Protection degree | IP 65 | | | | | |
| Operating temperature range | -25 °C ~ +60 °C With derating above 45 °C | | | | | |
| Pollution degree | III | | | | | |
| Protective Class | Class I | | | | | |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Zertifikatsnummer): CN-PV-220033

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.): 220118075GZU-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 _{EMax} (maximale Wirkleistung P _{EMax}) | SPH 4000TL3 BH-UP, SPA 4000TL3 BH-UP | SPH 5000TL3 BH-UP, SPA 5000TL3 BH-UP | SPH 6000TL3 BH-UP, SPA 6000TL3 BH-UP | |
| | | 3.997KW | 4.980KW | 5.963KW | |
| | | SPH 7000TL3 BH-UP, SPA 7000TL3 BH-UP | SPH 8000TL3 BH-UP, SPA 8000TL3 BH-UP | SPH 10000TL3 BH-UP, SPA 10000TL3 BH-UP | |
| | | 6.934KW | 7.937KW | 9.905KW | |
| | Rated voltage (Bemessungsspannung) | 3W/N/PE 230Vac/400Vac | | | |
| Measurement period (Messzeitraum) | From (vom) YYYY-MM-DD to (bis) YYYY-MM-DD | 2021 Jan 21 to 2021 Jan 25 | | | |
| Rapid voltage changes (Schnelle Spannungsänderungen) | | k _i = 0.050 | | | |
| Connection without provisions (regarding the primary energy carrier) (Einschalten ohne Vorgabe (zum Primärenergieträger)) | | k _i = 0.043 | | | |
| Most adverse case when switching between generator levels (Ungünstigster Fall beim Umschalten der Generatorstufen) | | k _i = 0.043 | | | |
| Connection at nominal conditions (of the primary energy carrier) (Einschalten bei Nennbedingungen (des Primärenergieträgers)) | | k _i = 0.050 | | | |
| Disconnection at rated power (Ausschalten bei Bemessungsleistung) | | k _i = 0.042 | | | |
| Worst value of all switching operations (Schlechtester Wert aller Schaltvorgänge) | | k _{imax} = 0.050 | | | |
| Flicker | Network impedance angle Ψ_k (Netzimpedanzwinkel Ψ_k) | 30° | 50° | 70° | 85° |
| | Initial flicker factor C _ψ (Anlagenflickerbeiwert C _ψ) | 1.8 | 1.63 | 1.55 | 1.30 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Model: SPH 4000TL3 BH-UP, SPA 4000TL3 BH-UP | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] |
| 2 | 0.5517 | 0.1828 | 0.2121 | 0.1603 | 0.2017 | 0.3379 | 0.5138 | 0.5172 | 0.6017 | 0.6810 |
| 3 | 0.7000 | 0.8017 | 0.8862 | 0.9362 | 0.9845 | 1.0052 | 1.0517 | 1.0362 | 1.0534 | 1.0690 |
| 4 | 0.1759 | 0.1741 | 0.2138 | 0.2362 | 0.2862 | 0.3621 | 0.4138 | 0.4621 | 0.5155 | 0.5672 |
| 5 | 0.7776 | 1.2741 | 1.4879 | 1.5069 | 1.4569 | 1.3983 | 1.3690 | 1.3707 | 1.3707 | 1.3862 |
| 6 | 0.2190 | 0.1086 | 0.0983 | 0.1017 | 0.0914 | 0.0914 | 0.0741 | 0.0621 | 0.0810 | 0.0776 |
| 7 | 0.4397 | 0.2483 | 0.6000 | 0.7241 | 0.7931 | 0.8569 | 0.9276 | 1.0121 | 1.0793 | 1.1431 |
| 8 | 0.1000 | 0.0414 | 0.0466 | 0.0672 | 0.0810 | 0.1052 | 0.1190 | 0.1328 | 0.1328 | 0.1259 |
| 9 | 0.0828 | 0.1276 | 0.1638 | 0.1483 | 0.1328 | 0.1103 | 0.0983 | 0.0983 | 0.1000 | 0.1069 |
| 10 | 0.0397 | 0.0397 | 0.0379 | 0.0345 | 0.0448 | 0.0621 | 0.0845 | 0.1086 | 0.1276 | 0.1362 |
| 11 | 0.0845 | 0.1983 | 0.1621 | 0.1362 | 0.0638 | 0.0897 | 0.2103 | 0.3207 | 0.4190 | 0.4897 |
| 12 | 0.0466 | 0.0328 | 0.0345 | 0.0345 | 0.0345 | 0.0362 | 0.0362 | 0.0379 | 0.0431 | 0.0397 |
| 13 | 0.0931 | 0.2103 | 0.1517 | 0.1517 | 0.1190 | 0.0741 | 0.0672 | 0.1500 | 0.2362 | 0.3000 |
| 14 | 0.0534 | 0.0345 | 0.0310 | 0.0345 | 0.0362 | 0.0328 | 0.0431 | 0.0552 | 0.0707 | 0.0793 |
| 15 | 0.0483 | 0.0379 | 0.0534 | 0.0638 | 0.0534 | 0.0414 | 0.0379 | 0.0431 | 0.0500 | 0.0569 |
| 16 | 0.0552 | 0.0534 | 0.0552 | 0.0569 | 0.0517 | 0.0500 | 0.0621 | 0.0793 | 0.0931 | 0.1052 |
| 17 | 0.1017 | 0.0586 | 0.1000 | 0.0983 | 0.0948 | 0.0879 | 0.0672 | 0.0431 | 0.0638 | 0.1000 |
| 18 | 0.0379 | 0.0345 | 0.0362 | 0.0379 | 0.0397 | 0.0362 | 0.0397 | 0.0414 | 0.0431 | 0.0414 |
| 19 | 0.0845 | 0.0793 | 0.1034 | 0.1379 | 0.1190 | 0.0931 | 0.0690 | 0.0552 | 0.0690 | 0.1086 |
| 20 | 0.0414 | 0.0310 | 0.0310 | 0.0362 | 0.0379 | 0.0414 | 0.0362 | 0.0379 | 0.0500 | 0.0586 |
| 21 | 0.0345 | 0.0345 | 0.0379 | 0.0310 | 0.0345 | 0.0431 | 0.0397 | 0.0397 | 0.0362 | 0.0345 |
| 22 | 0.0345 | 0.0310 | 0.0310 | 0.0310 | 0.0293 | 0.0310 | 0.0310 | 0.0310 | 0.0310 | 0.0379 |
| 23 | 0.0534 | 0.0569 | 0.0379 | 0.0534 | 0.0638 | 0.0655 | 0.0672 | 0.0586 | 0.0552 | 0.0621 |
| 24 | 0.0397 | 0.0328 | 0.0310 | 0.0328 | 0.0345 | 0.0293 | 0.0310 | 0.0345 | 0.0345 | 0.0293 |
| 25 | 0.0759 | 0.0690 | 0.0466 | 0.0552 | 0.0655 | 0.0552 | 0.0517 | 0.0483 | 0.0431 | 0.0431 |
| 26 | 0.0362 | 0.0293 | 0.0293 | 0.0276 | 0.0293 | 0.0328 | 0.0328 | 0.0310 | 0.0310 | 0.0328 |
| 27 | 0.0310 | 0.0276 | 0.0293 | 0.0310 | 0.0276 | 0.0328 | 0.0328 | 0.0293 | 0.0328 | 0.0293 |
| 28 | 0.0310 | 0.0293 | 0.0293 | 0.0310 | 0.0328 | 0.0328 | 0.0345 | 0.0362 | 0.0345 | 0.0310 |
| 29 | 0.0534 | 0.0517 | 0.0414 | 0.0310 | 0.0397 | 0.0379 | 0.0310 | 0.0362 | 0.0379 | 0.0414 |
| 30 | 0.0310 | 0.0310 | 0.0293 | 0.0293 | 0.0310 | 0.0310 | 0.0310 | 0.0328 | 0.0362 | 0.0345 |
| 31 | 0.0448 | 0.0397 | 0.0448 | 0.0431 | 0.0310 | 0.0345 | 0.0466 | 0.0466 | 0.0500 | 0.0483 |
| 32 | 0.0310 | 0.0293 | 0.0293 | 0.0293 | 0.0310 | 0.0345 | 0.0328 | 0.0328 | 0.0345 | 0.0328 |
| 33 | 0.0310 | 0.0328 | 0.0310 | 0.0345 | 0.0328 | 0.0397 | 0.0345 | 0.0345 | 0.0328 | 0.0345 |
| 34 | 0.0293 | 0.0259 | 0.0328 | 0.0328 | 0.0310 | 0.0397 | 0.0362 | 0.0362 | 0.0362 | 0.0362 |
| 35 | 0.0328 | 0.0379 | 0.0379 | 0.0414 | 0.0345 | 0.0397 | 0.0362 | 0.0414 | 0.0414 | 0.0448 |
| 36 | 0.0310 | 0.0293 | 0.0328 | 0.0362 | 0.0345 | 0.0414 | 0.0362 | 0.0397 | 0.0345 | 0.0414 |
| 37 | 0.0414 | 0.0448 | 0.0448 | 0.0500 | 0.0414 | 0.0466 | 0.0448 | 0.0466 | 0.0466 | 0.0500 |
| 38 | 0.0293 | 0.0328 | 0.0362 | 0.0397 | 0.0379 | 0.0586 | 0.0534 | 0.0552 | 0.0552 | 0.0517 |
| 39 | 0.0276 | 0.0345 | 0.0328 | 0.0397 | 0.0379 | 0.0655 | 0.0397 | 0.0379 | 0.0414 | 0.0397 |
| 40 | 0.0293 | 0.0328 | 0.0328 | 0.0500 | 0.0414 | 0.0655 | 0.0466 | 0.0448 | 0.0466 | 0.0448 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 75 | 1.6599 | 0.3479 | 0.4646 | 0.5569 | 0.5721 | 1.2785 | 0.5982 | 0.6217 | 0.6530 | 0.7361 |
| 125 | 0.1330 | 0.0915 | 0.1235 | 0.1553 | 0.1667 | 0.3102 | 0.2004 | 0.2017 | 0.2028 | 0.2137 |
| 175 | 0.0960 | 0.0751 | 0.1010 | 0.1177 | 0.1350 | 0.1568 | 0.1462 | 0.1584 | 0.1584 | 0.1488 |
| 225 | 0.1993 | 0.0828 | 0.1425 | 0.1730 | 0.2065 | 0.2129 | 0.2188 | 0.2312 | 0.2364 | 0.2471 |
| 275 | 0.1801 | 0.0819 | 0.1228 | 0.1449 | 0.1556 | 0.1655 | 0.1559 | 0.1545 | 0.1649 | 0.1703 |
| 325 | 0.1438 | 0.0516 | 0.0671 | 0.0991 | 0.1263 | 0.1445 | 0.1472 | 0.1564 | 0.1634 | 0.1691 |
| 375 | 0.1394 | 0.0518 | 0.0660 | 0.0948 | 0.1152 | 0.1368 | 0.1408 | 0.1442 | 0.1414 | 0.1561 |
| 425 | 0.0398 | 0.0448 | 0.0527 | 0.0530 | 0.0600 | 0.0643 | 0.0553 | 0.0601 | 0.0576 | 0.0635 |
| 475 | 0.0316 | 0.0444 | 0.0471 | 0.0520 | 0.0550 | 0.0589 | 0.0582 | 0.0608 | 0.0618 | 0.0592 |
| 525 | 0.0787 | 0.0550 | 0.0552 | 0.0548 | 0.0564 | 0.0616 | 0.0696 | 0.0759 | 0.0834 | 0.0873 |
| 575 | 0.0848 | 0.0423 | 0.0508 | 0.0520 | 0.0547 | 0.0644 | 0.0649 | 0.0734 | 0.0768 | 0.0785 |
| 625 | 0.0695 | 0.0487 | 0.0573 | 0.0518 | 0.0529 | 0.0561 | 0.0602 | 0.0676 | 0.0708 | 0.0741 |
| 675 | 0.0553 | 0.0430 | 0.0524 | 0.0522 | 0.0497 | 0.0557 | 0.0613 | 0.0663 | 0.0715 | 0.0782 |
| 725 | 0.0272 | 0.0382 | 0.0447 | 0.0469 | 0.0490 | 0.0519 | 0.0504 | 0.0520 | 0.0502 | 0.0525 |
| 775 | 0.0241 | 0.0382 | 0.0415 | 0.0448 | 0.0479 | 0.0480 | 0.0515 | 0.0512 | 0.0506 | 0.0530 |
| 825 | 0.0250 | 0.0363 | 0.0454 | 0.0470 | 0.0505 | 0.0493 | 0.0506 | 0.0511 | 0.0561 | 0.0565 |
| 875 | 0.0240 | 0.0337 | 0.0432 | 0.0517 | 0.0486 | 0.0466 | 0.0481 | 0.0509 | 0.0538 | 0.0550 |
| 925 | 0.0269 | 0.0364 | 0.0420 | 0.0470 | 0.0508 | 0.0521 | 0.0498 | 0.0479 | 0.0498 | 0.0558 |
| 975 | 0.0266 | 0.0351 | 0.0405 | 0.0473 | 0.0497 | 0.0508 | 0.0502 | 0.0479 | 0.0517 | 0.0543 |
| 1025 | 0.0256 | 0.0334 | 0.0390 | 0.0424 | 0.0449 | 0.0470 | 0.0475 | 0.0451 | 0.0450 | 0.0476 |
| 1075 | 0.0259 | 0.0333 | 0.0373 | 0.0404 | 0.0456 | 0.0453 | 0.0457 | 0.0458 | 0.0483 | 0.0491 |
| 1125 | 0.0267 | 0.0332 | 0.0375 | 0.0417 | 0.0450 | 0.0450 | 0.0451 | 0.0473 | 0.0488 | 0.0499 |
| 1175 | 0.0293 | 0.0346 | 0.0371 | 0.0427 | 0.0459 | 0.0495 | 0.0470 | 0.0477 | 0.0492 | 0.0496 |
| 1225 | 0.0278 | 0.0353 | 0.0410 | 0.0423 | 0.0431 | 0.0467 | 0.0464 | 0.0456 | 0.0509 | 0.0505 |
| 1275 | 0.0285 | 0.0375 | 0.0409 | 0.0425 | 0.0454 | 0.0497 | 0.0482 | 0.0511 | 0.0523 | 0.0518 |
| 1325 | 0.0273 | 0.0348 | 0.0413 | 0.0391 | 0.0431 | 0.0459 | 0.0428 | 0.0450 | 0.0483 | 0.0498 |
| 1375 | 0.0266 | 0.0357 | 0.0396 | 0.0452 | 0.0443 | 0.0495 | 0.0500 | 0.0482 | 0.0497 | 0.0470 |
| 1425 | 0.0248 | 0.0337 | 0.0395 | 0.0414 | 0.0452 | 0.0434 | 0.0464 | 0.0465 | 0.0485 | 0.0495 |
| 1475 | 0.0255 | 0.0333 | 0.0372 | 0.0435 | 0.0415 | 0.0455 | 0.0465 | 0.0476 | 0.0482 | 0.0471 |
| 1525 | 0.0250 | 0.0356 | 0.0373 | 0.0428 | 0.0466 | 0.0498 | 0.0492 | 0.0487 | 0.0513 | 0.0499 |
| 1575 | 0.0272 | 0.0474 | 0.0534 | 0.0529 | 0.0531 | 0.0547 | 0.0492 | 0.0502 | 0.0504 | 0.0513 |
| 1625 | 0.0256 | 0.0332 | 0.0376 | 0.0437 | 0.0462 | 0.0557 | 0.0472 | 0.0499 | 0.0503 | 0.0505 |
| 1675 | 0.0240 | 0.0352 | 0.0414 | 0.0453 | 0.0466 | 0.0622 | 0.0480 | 0.0508 | 0.0493 | 0.0563 |
| 1725 | 0.0215 | 0.0333 | 0.0409 | 0.0513 | 0.0502 | 0.0651 | 0.0554 | 0.0563 | 0.0499 | 0.0609 |
| 1775 | 0.0227 | 0.0374 | 0.0453 | 0.0540 | 0.0550 | 0.0682 | 0.0631 | 0.0639 | 0.0601 | 0.0768 |
| 1825 | 0.0239 | 0.0404 | 0.0495 | 0.0621 | 0.0607 | 0.0705 | 0.0726 | 0.0732 | 0.0604 | 0.0875 |
| 1875 | 0.0228 | 0.0384 | 0.0485 | 0.0576 | 0.0600 | 0.0727 | 0.0738 | 0.0722 | 0.0639 | 0.0873 |
| 1925 | 0.0222 | 0.0382 | 0.0473 | 0.0622 | 0.0617 | 0.0836 | 0.0715 | 0.0714 | 0.0632 | 0.0814 |
| 1975 | 0.0223 | 0.0382 | 0.0587 | 0.0702 | 0.0746 | 0.0881 | 0.0966 | 0.0949 | 0.0966 | 0.0981 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 2.1 | 0.0142 | 0.0268 | 0.0339 | 0.0494 | 0.0490 | 0.0531 | 0.0417 | 0.0380 | 0.0413 | 0.0409 |
| 2.3 | 0.0152 | 0.0298 | 0.0315 | 0.0474 | 0.0459 | 0.0491 | 0.0667 | 0.0653 | 0.0743 | 0.0632 |
| 2.5 | 0.0154 | 0.0269 | 0.0299 | 0.0361 | 0.0354 | 0.0389 | 0.0330 | 0.0345 | 0.0348 | 0.0386 |
| 2.7 | 0.0157 | 0.0235 | 0.0264 | 0.0289 | 0.0313 | 0.0324 | 0.0292 | 0.0311 | 0.0342 | 0.0327 |
| 2.9 | 0.0165 | 0.0235 | 0.0265 | 0.0292 | 0.0271 | 0.0315 | 0.0306 | 0.0301 | 0.0321 | 0.0340 |
| 3.1 | 0.0154 | 0.0237 | 0.0289 | 0.0312 | 0.0295 | 0.0331 | 0.0304 | 0.0317 | 0.0329 | 0.0321 |
| 3.3 | 0.0165 | 0.0227 | 0.0291 | 0.0277 | 0.0299 | 0.0326 | 0.0293 | 0.0302 | 0.0326 | 0.0318 |
| 3.5 | 0.0141 | 0.0226 | 0.0269 | 0.0301 | 0.0300 | 0.0308 | 0.0323 | 0.0330 | 0.0336 | 0.0344 |
| 3.7 | 0.0154 | 0.0257 | 0.0306 | 0.0337 | 0.0298 | 0.0303 | 0.0326 | 0.0307 | 0.0328 | 0.0338 |
| 3.9 | 0.0148 | 0.0209 | 0.0260 | 0.0283 | 0.0292 | 0.0288 | 0.0294 | 0.0296 | 0.0333 | 0.0305 |
| 4.1 | 0.0154 | 0.0251 | 0.0281 | 0.0295 | 0.0318 | 0.0308 | 0.0284 | 0.0329 | 0.0341 | 0.0332 |
| 4.3 | 0.0137 | 0.0232 | 0.0292 | 0.0299 | 0.0293 | 0.0314 | 0.0312 | 0.0320 | 0.0344 | 0.0355 |
| 4.5 | 0.0148 | 0.0212 | 0.0246 | 0.0264 | 0.0290 | 0.0316 | 0.0308 | 0.0316 | 0.0317 | 0.0298 |
| 4.7 | 0.0142 | 0.0221 | 0.0240 | 0.0277 | 0.0285 | 0.0315 | 0.0322 | 0.0310 | 0.0359 | 0.0316 |
| 4.9 | 0.0143 | 0.0229 | 0.0268 | 0.0304 | 0.0300 | 0.0301 | 0.0318 | 0.0317 | 0.0346 | 0.0332 |
| 5.1 | 0.0141 | 0.0227 | 0.0265 | 0.0288 | 0.0310 | 0.0303 | 0.0308 | 0.0324 | 0.0332 | 0.0292 |
| 5.3 | 0.0138 | 0.0222 | 0.0281 | 0.0294 | 0.0296 | 0.0293 | 0.0299 | 0.0354 | 0.0343 | 0.0336 |
| 5.5 | 0.0148 | 0.0216 | 0.0273 | 0.0301 | 0.0313 | 0.0314 | 0.0316 | 0.0359 | 0.0340 | 0.0354 |
| 5.7 | 0.0147 | 0.0217 | 0.0251 | 0.0295 | 0.0283 | 0.0315 | 0.0301 | 0.0283 | 0.0316 | 0.0311 |
| 5.9 | 0.0144 | 0.0229 | 0.0287 | 0.0288 | 0.0319 | 0.0318 | 0.0345 | 0.0373 | 0.0371 | 0.0388 |
| 6.1 | 0.0159 | 0.0260 | 0.0290 | 0.0295 | 0.0332 | 0.0342 | 0.0344 | 0.0349 | 0.0374 | 0.0393 |
| 6.3 | 0.0156 | 0.0248 | 0.0279 | 0.0312 | 0.0297 | 0.0315 | 0.0314 | 0.0340 | 0.0351 | 0.0332 |
| 6.5 | 0.0174 | 0.0242 | 0.0277 | 0.0310 | 0.0302 | 0.0355 | 0.0342 | 0.0359 | 0.0367 | 0.0384 |
| 6.7 | 0.0157 | 0.0247 | 0.0270 | 0.0308 | 0.0293 | 0.0338 | 0.0347 | 0.0370 | 0.0363 | 0.0365 |
| 6.9 | 0.0163 | 0.0250 | 0.0303 | 0.0307 | 0.0354 | 0.0330 | 0.0341 | 0.0347 | 0.0378 | 0.0381 |
| 7.1 | 0.0154 | 0.0218 | 0.0269 | 0.0285 | 0.0304 | 0.0300 | 0.0317 | 0.0324 | 0.0329 | 0.0325 |
| 7.3 | 0.0143 | 0.0195 | 0.0253 | 0.0290 | 0.0273 | 0.0296 | 0.0313 | 0.0302 | 0.0316 | 0.0314 |
| 7.5 | 0.0142 | 0.0192 | 0.0250 | 0.0268 | 0.0276 | 0.0289 | 0.0321 | 0.0289 | 0.0334 | 0.0307 |
| 7.7 | 0.0140 | 0.0223 | 0.0246 | 0.0291 | 0.0302 | 0.0297 | 0.0288 | 0.0290 | 0.0300 | 0.0294 |
| 7.9 | 0.0131 | 0.0214 | 0.0241 | 0.0252 | 0.0275 | 0.0276 | 0.0301 | 0.0317 | 0.0323 | 0.0304 |
| 8.1 | 0.0128 | 0.0205 | 0.0226 | 0.0253 | 0.0281 | 0.0273 | 0.0289 | 0.0276 | 0.0283 | 0.0306 |
| 8.3 | 0.0139 | 0.0218 | 0.0231 | 0.0304 | 0.0279 | 0.0289 | 0.0257 | 0.0308 | 0.0303 | 0.0309 |
| 8.5 | 0.0133 | 0.0217 | 0.0272 | 0.0282 | 0.0298 | 0.0265 | 0.0278 | 0.0300 | 0.0318 | 0.0299 |
| 8.7 | 0.0134 | 0.0203 | 0.0213 | 0.0248 | 0.0287 | 0.0263 | 0.0282 | 0.0277 | 0.0297 | 0.0301 |
| 8.9 | 0.0133 | 0.0204 | 0.0227 | 0.0265 | 0.0283 | 0.0295 | 0.0283 | 0.0305 | 0.0289 | 0.0297 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Model: SPH 5000TL3 BH-UP, SPA 5000TL3 BH-UP | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] |
| 2 | 0.5697 | 0.6676 | 0.7421 | 0.7779 | 0.8097 | 0.8317 | 0.8441 | 0.8538 | 0.8552 | 0.8607 |
| 3 | 0.0924 | 0.0469 | 0.0910 | 0.1214 | 0.1545 | 0.1724 | 0.1890 | 0.1972 | 0.2207 | 0.2414 |
| 4 | 0.6883 | 1.1228 | 1.2014 | 1.1572 | 1.0993 | 1.0855 | 1.0855 | 1.1062 | 1.1572 | 1.1793 |
| 5 | 0.0759 | 0.0593 | 0.0924 | 0.1145 | 0.1324 | 0.1062 | 0.1228 | 0.1048 | 0.0786 | 0.0883 |
| 6 | 0.2897 | 0.3476 | 0.5531 | 0.6234 | 0.6897 | 0.7710 | 0.8497 | 0.9255 | 0.9641 | 1.0138 |
| 7 | 0.0345 | 0.0634 | 0.0359 | 0.0372 | 0.0497 | 0.0552 | 0.0634 | 0.0634 | 0.0634 | 0.0593 |
| 8 | 0.0593 | 0.1159 | 0.1200 | 0.1062 | 0.0883 | 0.0759 | 0.0800 | 0.0828 | 0.0897 | 0.0869 |
| 9 | 0.0538 | 0.0469 | 0.0290 | 0.0276 | 0.0386 | 0.0441 | 0.0469 | 0.0428 | 0.0455 | 0.0414 |
| 10 | 0.1131 | 0.1297 | 0.1200 | 0.0524 | 0.0897 | 0.2069 | 0.3297 | 0.4083 | 0.4566 | 0.5090 |
| 11 | 0.0290 | 0.0414 | 0.0359 | 0.0262 | 0.0290 | 0.0345 | 0.0483 | 0.0483 | 0.0497 | 0.0497 |
| 12 | 0.0690 | 0.1379 | 0.1172 | 0.0966 | 0.0497 | 0.0814 | 0.1834 | 0.2524 | 0.3062 | 0.3366 |
| 13 | 0.0414 | 0.0414 | 0.0331 | 0.0221 | 0.0262 | 0.0290 | 0.0303 | 0.0290 | 0.0290 | 0.0262 |
| 14 | 0.0414 | 0.0303 | 0.0497 | 0.0441 | 0.0290 | 0.0290 | 0.0386 | 0.0428 | 0.0441 | 0.0469 |
| 15 | 0.0386 | 0.0497 | 0.0331 | 0.0276 | 0.0359 | 0.0372 | 0.0372 | 0.0372 | 0.0359 | 0.0331 |
| 16 | 0.0814 | 0.0662 | 0.0759 | 0.0717 | 0.0662 | 0.0428 | 0.0469 | 0.0883 | 0.1269 | 0.1545 |
| 17 | 0.0276 | 0.0248 | 0.0386 | 0.0400 | 0.0317 | 0.0317 | 0.0359 | 0.0428 | 0.0455 | 0.0483 |
| 18 | 0.0759 | 0.0524 | 0.1062 | 0.0924 | 0.0703 | 0.0441 | 0.0552 | 0.0952 | 0.1297 | 0.1531 |
| 19 | 0.0234 | 0.0248 | 0.0234 | 0.0234 | 0.0248 | 0.0262 | 0.0248 | 0.0276 | 0.0276 | 0.0290 |
| 20 | 0.0221 | 0.0262 | 0.0262 | 0.0248 | 0.0317 | 0.0331 | 0.0276 | 0.0276 | 0.0262 | 0.0248 |
| 21 | 0.0207 | 0.0221 | 0.0221 | 0.0248 | 0.0290 | 0.0262 | 0.0248 | 0.0221 | 0.0234 | 0.0248 |
| 22 | 0.0497 | 0.0428 | 0.0414 | 0.0510 | 0.0524 | 0.0497 | 0.0428 | 0.0497 | 0.0662 | 0.0855 |
| 23 | 0.0248 | 0.0234 | 0.0221 | 0.0290 | 0.0248 | 0.0221 | 0.0234 | 0.0234 | 0.0234 | 0.0248 |
| 24 | 0.0676 | 0.0538 | 0.0372 | 0.0524 | 0.0400 | 0.0372 | 0.0317 | 0.0317 | 0.0455 | 0.0607 |
| 25 | 0.0221 | 0.0207 | 0.0207 | 0.0221 | 0.0276 | 0.0221 | 0.0248 | 0.0234 | 0.0234 | 0.0221 |
| 26 | 0.0221 | 0.0221 | 0.0207 | 0.0234 | 0.0207 | 0.0207 | 0.0221 | 0.0234 | 0.0234 | 0.0221 |
| 27 | 0.0221 | 0.0221 | 0.0221 | 0.0221 | 0.0221 | 0.0221 | 0.0221 | 0.0207 | 0.0234 | 0.0234 |
| 28 | 0.0386 | 0.0359 | 0.0234 | 0.0317 | 0.0276 | 0.0262 | 0.0331 | 0.0303 | 0.0290 | 0.0345 |
| 29 | 0.0234 | 0.0234 | 0.0234 | 0.0234 | 0.0262 | 0.0248 | 0.0317 | 0.0234 | 0.0262 | 0.0262 |
| 30 | 0.0276 | 0.0331 | 0.0386 | 0.0234 | 0.0317 | 0.0359 | 0.0469 | 0.0345 | 0.0386 | 0.0428 |
| 31 | 0.0221 | 0.0221 | 0.0234 | 0.0207 | 0.0248 | 0.0221 | 0.0248 | 0.0221 | 0.0262 | 0.0248 |
| 32 | 0.0234 | 0.0234 | 0.0248 | 0.0262 | 0.0290 | 0.0248 | 0.0290 | 0.0234 | 0.0276 | 0.0262 |
| 33 | 0.0207 | 0.0221 | 0.0234 | 0.0193 | 0.0317 | 0.0234 | 0.0276 | 0.0248 | 0.0290 | 0.0276 |
| 34 | 0.0248 | 0.0276 | 0.0317 | 0.0276 | 0.0331 | 0.0290 | 0.0359 | 0.0345 | 0.0345 | 0.0359 |
| 35 | 0.0234 | 0.0248 | 0.0248 | 0.0262 | 0.0331 | 0.0248 | 0.0290 | 0.0290 | 0.0317 | 0.0331 |
| 36 | 0.0331 | 0.0317 | 0.0345 | 0.0331 | 0.0386 | 0.0303 | 0.0345 | 0.0359 | 0.0372 | 0.0386 |
| 37 | 0.0221 | 0.0248 | 0.0290 | 0.0262 | 0.0428 | 0.0359 | 0.0331 | 0.0428 | 0.0386 | 0.0386 |
| 38 | 0.0221 | 0.0276 | 0.0317 | 0.0303 | 0.0441 | 0.0276 | 0.0290 | 0.0290 | 0.0317 | 0.0303 |
| 39 | 0.0234 | 0.0276 | 0.0331 | 0.0303 | 0.0359 | 0.0276 | 0.0276 | 0.0303 | 0.0317 | 0.0276 |
| 40 | 0.5697 | 0.6676 | 0.7421 | 0.7779 | 0.8097 | 0.8317 | 0.8441 | 0.8538 | 0.8552 | 0.8607 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 75 | 0.1892 | 0.3428 | 0.4266 | 0.4297 | 1.6994 | 0.4970 | 0.6407 | 0.5015 | 0.5122 | 0.5622 |
| 125 | 0.0481 | 0.0882 | 0.1161 | 0.1294 | 0.2219 | 0.1482 | 0.1805 | 0.1508 | 0.1551 | 0.1633 |
| 175 | 0.0406 | 0.0796 | 0.1006 | 0.1139 | 0.2028 | 0.1308 | 0.1441 | 0.1301 | 0.1276 | 0.1256 |
| 225 | 0.0466 | 0.1031 | 0.1383 | 0.1543 | 0.2015 | 0.1999 | 0.2121 | 0.1801 | 0.1773 | 0.1771 |
| 275 | 0.0548 | 0.0856 | 0.1123 | 0.1144 | 0.1391 | 0.1228 | 0.1332 | 0.1175 | 0.1143 | 0.1068 |
| 325 | 0.0309 | 0.0485 | 0.0725 | 0.0860 | 0.1274 | 0.1258 | 0.1360 | 0.1200 | 0.1158 | 0.1144 |
| 375 | 0.0342 | 0.0418 | 0.0715 | 0.0854 | 0.1196 | 0.1118 | 0.1151 | 0.1066 | 0.0981 | 0.0978 |
| 425 | 0.0276 | 0.0380 | 0.0479 | 0.0462 | 0.0466 | 0.0458 | 0.0476 | 0.0417 | 0.0451 | 0.0433 |
| 475 | 0.0260 | 0.0368 | 0.0446 | 0.0444 | 0.0450 | 0.0454 | 0.0446 | 0.0429 | 0.0434 | 0.0438 |
| 525 | 0.0320 | 0.0454 | 0.0435 | 0.0428 | 0.0575 | 0.0606 | 0.0656 | 0.0650 | 0.0645 | 0.0640 |
| 575 | 0.0280 | 0.0386 | 0.0424 | 0.0414 | 0.0520 | 0.0524 | 0.0608 | 0.0568 | 0.0554 | 0.0585 |
| 625 | 0.0307 | 0.0414 | 0.0453 | 0.0401 | 0.0475 | 0.0474 | 0.0561 | 0.0557 | 0.0576 | 0.0567 |
| 675 | 0.0260 | 0.0416 | 0.0421 | 0.0381 | 0.0452 | 0.0484 | 0.0511 | 0.0501 | 0.0492 | 0.0538 |
| 725 | 0.0231 | 0.0306 | 0.0383 | 0.0384 | 0.0387 | 0.0371 | 0.0388 | 0.0368 | 0.0391 | 0.0386 |
| 775 | 0.0215 | 0.0311 | 0.0351 | 0.0362 | 0.0393 | 0.0391 | 0.0374 | 0.0373 | 0.0393 | 0.0364 |
| 825 | 0.0213 | 0.0324 | 0.0390 | 0.0369 | 0.0381 | 0.0383 | 0.0414 | 0.0394 | 0.0425 | 0.0437 |
| 875 | 0.0209 | 0.0320 | 0.0354 | 0.0370 | 0.0381 | 0.0367 | 0.0396 | 0.0415 | 0.0407 | 0.0415 |
| 925 | 0.0211 | 0.0294 | 0.0351 | 0.0362 | 0.0382 | 0.0375 | 0.0398 | 0.0366 | 0.0405 | 0.0406 |
| 975 | 0.0204 | 0.0299 | 0.0352 | 0.0403 | 0.0367 | 0.0371 | 0.0384 | 0.0388 | 0.0410 | 0.0419 |
| 1025 | 0.0202 | 0.0276 | 0.0329 | 0.0358 | 0.0350 | 0.0363 | 0.0360 | 0.0353 | 0.0366 | 0.0362 |
| 1075 | 0.0198 | 0.0290 | 0.0328 | 0.0330 | 0.0340 | 0.0330 | 0.0348 | 0.0330 | 0.0364 | 0.0363 |
| 1125 | 0.0193 | 0.0283 | 0.0316 | 0.0344 | 0.0356 | 0.0348 | 0.0348 | 0.0363 | 0.0397 | 0.0371 |
| 1175 | 0.0198 | 0.0282 | 0.0315 | 0.0328 | 0.0349 | 0.0351 | 0.0345 | 0.0363 | 0.0373 | 0.0363 |
| 1225 | 0.0207 | 0.0292 | 0.0309 | 0.0314 | 0.0351 | 0.0389 | 0.0353 | 0.0358 | 0.0385 | 0.0381 |
| 1275 | 0.0214 | 0.0325 | 0.0348 | 0.0358 | 0.0375 | 0.0372 | 0.0355 | 0.0386 | 0.0384 | 0.0391 |
| 1325 | 0.0200 | 0.0290 | 0.0324 | 0.0337 | 0.0340 | 0.0343 | 0.0360 | 0.0354 | 0.0378 | 0.0357 |
| 1375 | 0.0210 | 0.0295 | 0.0325 | 0.0338 | 0.0370 | 0.0340 | 0.0369 | 0.0356 | 0.0376 | 0.0373 |
| 1425 | 0.0203 | 0.0289 | 0.0311 | 0.0332 | 0.0367 | 0.0351 | 0.0353 | 0.0342 | 0.0357 | 0.0351 |
| 1475 | 0.0184 | 0.0270 | 0.0300 | 0.0310 | 0.0412 | 0.0342 | 0.0348 | 0.0363 | 0.0369 | 0.0365 |
| 1525 | 0.0209 | 0.0304 | 0.0327 | 0.0342 | 0.0408 | 0.0368 | 0.0408 | 0.0361 | 0.0404 | 0.0380 |
| 1575 | 0.0286 | 0.0401 | 0.0411 | 0.0374 | 0.0433 | 0.0346 | 0.0427 | 0.0362 | 0.0377 | 0.0402 |
| 1625 | 0.0194 | 0.0272 | 0.0330 | 0.0321 | 0.0459 | 0.0358 | 0.0444 | 0.0365 | 0.0369 | 0.0362 |
| 1675 | 0.0199 | 0.0268 | 0.0334 | 0.0329 | 0.0493 | 0.0350 | 0.0415 | 0.0393 | 0.0405 | 0.0416 |
| 1725 | 0.0200 | 0.0265 | 0.0366 | 0.0321 | 0.0503 | 0.0386 | 0.0441 | 0.0425 | 0.0447 | 0.0463 |
| 1775 | 0.0200 | 0.0276 | 0.0388 | 0.0333 | 0.0545 | 0.0431 | 0.0504 | 0.0480 | 0.0552 | 0.0561 |
| 1825 | 0.0222 | 0.0302 | 0.0423 | 0.0366 | 0.0577 | 0.0474 | 0.0576 | 0.0533 | 0.0594 | 0.0582 |
| 1875 | 0.0217 | 0.0311 | 0.0433 | 0.0384 | 0.0564 | 0.0463 | 0.0549 | 0.0536 | 0.0576 | 0.0567 |
| 1925 | 0.0231 | 0.0356 | 0.0455 | 0.0449 | 0.0519 | 0.0477 | 0.0516 | 0.0520 | 0.0534 | 0.0508 |
| 1975 | 0.0242 | 0.0401 | 0.0543 | 0.0579 | 0.0546 | 0.0645 | 0.0593 | 0.0702 | 0.0674 | 0.0646 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 2.1 | 0.0186 | 0.0256 | 0.0344 | 0.0306 | 0.0349 | 0.0297 | 0.0268 | 0.0304 | 0.0286 | 0.0274 |
| 2.3 | 0.0212 | 0.0296 | 0.0342 | 0.0403 | 0.0361 | 0.0463 | 0.0402 | 0.0467 | 0.0467 | 0.0403 |
| 2.5 | 0.0163 | 0.0204 | 0.0248 | 0.0248 | 0.0297 | 0.0244 | 0.0254 | 0.0246 | 0.0243 | 0.0247 |
| 2.7 | 0.0140 | 0.0201 | 0.0218 | 0.0228 | 0.0227 | 0.0236 | 0.0239 | 0.0247 | 0.0239 | 0.0226 |
| 2.9 | 0.0130 | 0.0171 | 0.0205 | 0.0207 | 0.0237 | 0.0222 | 0.0230 | 0.0226 | 0.0218 | 0.0228 |
| 3.1 | 0.0120 | 0.0174 | 0.0209 | 0.0186 | 0.0216 | 0.0209 | 0.0209 | 0.0221 | 0.0233 | 0.0224 |
| 3.3 | 0.0125 | 0.0186 | 0.0190 | 0.0199 | 0.0228 | 0.0232 | 0.0222 | 0.0215 | 0.0251 | 0.0241 |
| 3.5 | 0.0126 | 0.0182 | 0.0208 | 0.0206 | 0.0211 | 0.0227 | 0.0223 | 0.0219 | 0.0244 | 0.0235 |
| 3.7 | 0.0127 | 0.0179 | 0.0258 | 0.0210 | 0.0212 | 0.0212 | 0.0236 | 0.0208 | 0.0233 | 0.0253 |
| 3.9 | 0.0123 | 0.0192 | 0.0221 | 0.0226 | 0.0217 | 0.0218 | 0.0206 | 0.0218 | 0.0238 | 0.0236 |
| 4.1 | 0.0141 | 0.0184 | 0.0212 | 0.0246 | 0.0231 | 0.0262 | 0.0244 | 0.0247 | 0.0215 | 0.0230 |
| 4.3 | 0.0113 | 0.0180 | 0.0228 | 0.0233 | 0.0211 | 0.0213 | 0.0219 | 0.0217 | 0.0236 | 0.0260 |
| 4.5 | 0.0125 | 0.0203 | 0.0201 | 0.0211 | 0.0217 | 0.0236 | 0.0231 | 0.0213 | 0.0212 | 0.0223 |
| 4.7 | 0.0121 | 0.0184 | 0.0203 | 0.0224 | 0.0227 | 0.0231 | 0.0214 | 0.0215 | 0.0237 | 0.0230 |
| 4.9 | 0.0128 | 0.0173 | 0.0199 | 0.0204 | 0.0211 | 0.0231 | 0.0223 | 0.0211 | 0.0232 | 0.0217 |
| 5.1 | 0.0124 | 0.0181 | 0.0212 | 0.0227 | 0.0235 | 0.0222 | 0.0230 | 0.0230 | 0.0254 | 0.0243 |
| 5.3 | 0.0119 | 0.0181 | 0.0205 | 0.0187 | 0.0210 | 0.0225 | 0.0219 | 0.0216 | 0.0212 | 0.0232 |
| 5.5 | 0.0135 | 0.0183 | 0.0202 | 0.0219 | 0.0234 | 0.0220 | 0.0240 | 0.0247 | 0.0239 | 0.0248 |
| 5.7 | 0.0131 | 0.0186 | 0.0194 | 0.0238 | 0.0224 | 0.0239 | 0.0234 | 0.0222 | 0.0240 | 0.0226 |
| 5.9 | 0.0132 | 0.0197 | 0.0208 | 0.0219 | 0.0202 | 0.0226 | 0.0249 | 0.0248 | 0.0241 | 0.0258 |
| 6.1 | 0.0134 | 0.0193 | 0.0211 | 0.0230 | 0.0254 | 0.0264 | 0.0257 | 0.0267 | 0.0270 | 0.0284 |
| 6.3 | 0.0146 | 0.0202 | 0.0216 | 0.0216 | 0.0226 | 0.0233 | 0.0250 | 0.0265 | 0.0255 | 0.0249 |
| 6.5 | 0.0136 | 0.0206 | 0.0217 | 0.0220 | 0.0251 | 0.0244 | 0.0227 | 0.0252 | 0.0271 | 0.0254 |
| 6.7 | 0.0132 | 0.0203 | 0.0218 | 0.0214 | 0.0238 | 0.0227 | 0.0217 | 0.0249 | 0.0234 | 0.0227 |
| 6.9 | 0.0155 | 0.0228 | 0.0245 | 0.0260 | 0.0255 | 0.0268 | 0.0256 | 0.0278 | 0.0289 | 0.0272 |
| 7.1 | 0.0133 | 0.0182 | 0.0220 | 0.0200 | 0.0239 | 0.0217 | 0.0233 | 0.0203 | 0.0225 | 0.0245 |
| 7.3 | 0.0120 | 0.0165 | 0.0193 | 0.0194 | 0.0214 | 0.0221 | 0.0216 | 0.0228 | 0.0224 | 0.0228 |
| 7.5 | 0.0121 | 0.0187 | 0.0207 | 0.0212 | 0.0208 | 0.0222 | 0.0237 | 0.0216 | 0.0215 | 0.0213 |
| 7.7 | 0.0119 | 0.0170 | 0.0206 | 0.0205 | 0.0205 | 0.0224 | 0.0209 | 0.0203 | 0.0205 | 0.0211 |
| 7.9 | 0.0125 | 0.0174 | 0.0168 | 0.0192 | 0.0206 | 0.0203 | 0.0218 | 0.0194 | 0.0195 | 0.0199 |
| 8.1 | 0.0109 | 0.0219 | 0.0203 | 0.0199 | 0.0213 | 0.0210 | 0.0209 | 0.0207 | 0.0214 | 0.0202 |
| 8.3 | 0.0112 | 0.0177 | 0.0208 | 0.0198 | 0.0193 | 0.0214 | 0.0217 | 0.0215 | 0.0223 | 0.0267 |
| 8.5 | 0.0118 | 0.0153 | 0.0191 | 0.0192 | 0.0214 | 0.0201 | 0.0215 | 0.0220 | 0.0210 | 0.0196 |
| 8.7 | 0.0119 | 0.0209 | 0.0186 | 0.0201 | 0.0211 | 0.0209 | 0.0219 | 0.0210 | 0.0225 | 0.0217 |
| 8.9 | 0.0113 | 0.0166 | 0.0190 | 0.0199 | 0.0212 | 0.0210 | 0.0201 | 0.0197 | 0.0188 | 0.0232 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Model: SPH 6000TL3 BH-UP, SPA 6000TL3 BH-UP | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] |
| 2 | 0.0897 | 0.1575 | 0.2000 | 1.5448 | 0.2207 | 0.2678 | 0.3322 | 0.3782 | 0.4241 | 0.4655 |
| 3 | 0.5080 | 0.5920 | 0.6368 | 0.6862 | 0.6793 | 0.6943 | 0.7046 | 0.7172 | 0.7276 | 0.7322 |
| 4 | 0.0954 | 0.1207 | 0.1770 | 0.4057 | 0.2195 | 0.2483 | 0.3011 | 0.3586 | 0.4023 | 0.4414 |
| 5 | 0.7701 | 1.0034 | 0.9724 | 0.9069 | 0.8885 | 0.8954 | 0.9276 | 0.9621 | 0.9690 | 0.9736 |
| 6 | 0.0782 | 0.0609 | 0.0632 | 0.2023 | 0.0563 | 0.0540 | 0.0517 | 0.0517 | 0.0494 | 0.0552 |
| 7 | 0.0816 | 0.4368 | 0.5126 | 0.5701 | 0.6437 | 0.7034 | 0.7747 | 0.8103 | 0.8655 | 0.9011 |
| 8 | 0.0345 | 0.0310 | 0.0529 | 0.1126 | 0.0736 | 0.0782 | 0.0747 | 0.0632 | 0.0575 | 0.0563 |
| 9 | 0.0678 | 0.1069 | 0.0908 | 0.0908 | 0.0644 | 0.0644 | 0.0747 | 0.0782 | 0.0839 | 0.0862 |
| 10 | 0.0264 | 0.0241 | 0.0241 | 0.0655 | 0.0483 | 0.0575 | 0.0678 | 0.0655 | 0.0632 | 0.0655 |
| 11 | 0.1379 | 0.1000 | 0.0529 | 0.0851 | 0.1943 | 0.2759 | 0.3529 | 0.4034 | 0.4299 | 0.4448 |
| 12 | 0.0230 | 0.0218 | 0.0230 | 0.0471 | 0.0264 | 0.0253 | 0.0276 | 0.0287 | 0.0287 | 0.0310 |
| 13 | 0.1218 | 0.0908 | 0.0874 | 0.0494 | 0.0805 | 0.1494 | 0.2241 | 0.2632 | 0.2908 | 0.3080 |
| 14 | 0.0218 | 0.0218 | 0.0218 | 0.0391 | 0.0264 | 0.0345 | 0.0391 | 0.0437 | 0.0448 | 0.0391 |
| 15 | 0.0299 | 0.0414 | 0.0391 | 0.0368 | 0.0264 | 0.0322 | 0.0356 | 0.0368 | 0.0379 | 0.0391 |
| 16 | 0.0368 | 0.0345 | 0.0356 | 0.0437 | 0.0437 | 0.0529 | 0.0586 | 0.0632 | 0.0575 | 0.0529 |
| 17 | 0.0437 | 0.0655 | 0.0563 | 0.0586 | 0.0299 | 0.0356 | 0.0851 | 0.1195 | 0.1368 | 0.1540 |
| 18 | 0.0241 | 0.0253 | 0.0241 | 0.0368 | 0.0253 | 0.0276 | 0.0310 | 0.0299 | 0.0287 | 0.0276 |
| 19 | 0.0575 | 0.0793 | 0.0828 | 0.0598 | 0.0356 | 0.0483 | 0.0908 | 0.1172 | 0.1356 | 0.1437 |
| 20 | 0.0207 | 0.0230 | 0.0230 | 0.0345 | 0.0241 | 0.0276 | 0.0379 | 0.0402 | 0.0437 | 0.0414 |
| 21 | 0.0218 | 0.0253 | 0.0207 | 0.0322 | 0.0253 | 0.0218 | 0.0230 | 0.0230 | 0.0253 | 0.0218 |
| 22 | 0.0195 | 0.0195 | 0.0207 | 0.0276 | 0.0195 | 0.0195 | 0.0253 | 0.0276 | 0.0322 | 0.0310 |
| 23 | 0.0368 | 0.0253 | 0.0402 | 0.0425 | 0.0414 | 0.0368 | 0.0460 | 0.0632 | 0.0747 | 0.0851 |
| 24 | 0.0207 | 0.0207 | 0.0195 | 0.0310 | 0.0218 | 0.0195 | 0.0207 | 0.0218 | 0.0230 | 0.0230 |
| 25 | 0.0552 | 0.0276 | 0.0425 | 0.0391 | 0.0333 | 0.0299 | 0.0299 | 0.0448 | 0.0563 | 0.0690 |
| 26 | 0.0195 | 0.0172 | 0.0195 | 0.0287 | 0.0207 | 0.0195 | 0.0207 | 0.0218 | 0.0230 | 0.0253 |
| 27 | 0.0172 | 0.0184 | 0.0184 | 0.0287 | 0.0184 | 0.0195 | 0.0195 | 0.0207 | 0.0195 | 0.0207 |
| 28 | 0.0195 | 0.0184 | 0.0195 | 0.0287 | 0.0207 | 0.0218 | 0.0218 | 0.0276 | 0.0276 | 0.0287 |
| 29 | 0.0310 | 0.0276 | 0.0230 | 0.0322 | 0.0230 | 0.0253 | 0.0241 | 0.0276 | 0.0333 | 0.0391 |
| 30 | 0.0172 | 0.0195 | 0.0184 | 0.0310 | 0.0207 | 0.0195 | 0.0207 | 0.0218 | 0.0230 | 0.0241 |
| 31 | 0.0241 | 0.0276 | 0.0207 | 0.0299 | 0.0299 | 0.0322 | 0.0287 | 0.0345 | 0.0402 | 0.0460 |
| 32 | 0.0195 | 0.0207 | 0.0195 | 0.0299 | 0.0230 | 0.0195 | 0.0207 | 0.0218 | 0.0241 | 0.0241 |
| 33 | 0.0207 | 0.0207 | 0.0230 | 0.0299 | 0.0218 | 0.0218 | 0.0218 | 0.0207 | 0.0241 | 0.0230 |
| 34 | 0.0207 | 0.0184 | 0.0207 | 0.0310 | 0.0253 | 0.0218 | 0.0207 | 0.0253 | 0.0276 | 0.0287 |
| 35 | 0.0253 | 0.0241 | 0.0230 | 0.0299 | 0.0253 | 0.0276 | 0.0287 | 0.0287 | 0.0333 | 0.0368 |
| 36 | 0.0253 | 0.0207 | 0.0195 | 0.0310 | 0.0276 | 0.0253 | 0.0230 | 0.0276 | 0.0299 | 0.0276 |
| 37 | 0.0310 | 0.0264 | 0.0287 | 0.0287 | 0.0299 | 0.0299 | 0.0299 | 0.0322 | 0.0310 | 0.0356 |
| 38 | 0.0241 | 0.0207 | 0.0241 | 0.0287 | 0.0299 | 0.0333 | 0.0322 | 0.0322 | 0.0345 | 0.0322 |
| 39 | 0.0253 | 0.0207 | 0.0207 | 0.0276 | 0.0276 | 0.0241 | 0.0241 | 0.0264 | 0.0253 | 0.0264 |
| 40 | 0.0276 | 0.0207 | 0.0230 | 0.0287 | 0.0253 | 0.0287 | 0.0276 | 0.0276 | 0.0276 | 0.0310 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 75 | 0.2023 | 0.2862 | 0.3501 | 1.0890 | 0.4141 | 0.4594 | 0.4524 | 0.4943 | 0.5045 | 0.4921 |
| 125 | 0.0519 | 0.0933 | 0.1006 | 0.4441 | 0.1190 | 0.1326 | 0.1389 | 0.1578 | 0.1554 | 0.1476 |
| 175 | 0.0388 | 0.0729 | 0.0869 | 0.2373 | 0.1055 | 0.1037 | 0.1046 | 0.1054 | 0.1046 | 0.1055 |
| 225 | 0.0395 | 0.0868 | 0.1219 | 0.2066 | 0.1580 | 0.1687 | 0.1431 | 0.1507 | 0.1378 | 0.1334 |
| 275 | 0.0464 | 0.0724 | 0.0958 | 0.1667 | 0.1092 | 0.1128 | 0.1048 | 0.0883 | 0.0866 | 0.0849 |
| 325 | 0.0292 | 0.0415 | 0.0754 | 0.1384 | 0.1089 | 0.1107 | 0.1012 | 0.0973 | 0.0891 | 0.0841 |
| 375 | 0.0322 | 0.0448 | 0.0677 | 0.1166 | 0.0945 | 0.1024 | 0.0933 | 0.0882 | 0.0884 | 0.0768 |
| 425 | 0.0264 | 0.0335 | 0.0393 | 0.0762 | 0.0368 | 0.0404 | 0.0400 | 0.0395 | 0.0424 | 0.0410 |
| 475 | 0.0267 | 0.0314 | 0.0348 | 0.0695 | 0.0368 | 0.0411 | 0.0429 | 0.0401 | 0.0403 | 0.0394 |
| 525 | 0.0306 | 0.0349 | 0.0329 | 0.0638 | 0.0485 | 0.0554 | 0.0566 | 0.0548 | 0.0545 | 0.0512 |
| 575 | 0.0234 | 0.0288 | 0.0327 | 0.0592 | 0.0446 | 0.0484 | 0.0461 | 0.0481 | 0.0503 | 0.0494 |
| 625 | 0.0275 | 0.0325 | 0.0331 | 0.0601 | 0.0429 | 0.0468 | 0.0468 | 0.0499 | 0.0465 | 0.0423 |
| 675 | 0.0228 | 0.0337 | 0.0305 | 0.0518 | 0.0415 | 0.0477 | 0.0490 | 0.0480 | 0.0485 | 0.0469 |
| 725 | 0.0205 | 0.0292 | 0.0300 | 0.0507 | 0.0342 | 0.0350 | 0.0343 | 0.0357 | 0.0356 | 0.0361 |
| 775 | 0.0200 | 0.0261 | 0.0290 | 0.0461 | 0.0323 | 0.0344 | 0.0345 | 0.0353 | 0.0353 | 0.0345 |
| 825 | 0.0198 | 0.0272 | 0.0308 | 0.0460 | 0.0325 | 0.0358 | 0.0371 | 0.0377 | 0.0394 | 0.0362 |
| 875 | 0.0197 | 0.0259 | 0.0308 | 0.0433 | 0.0321 | 0.0349 | 0.0365 | 0.0366 | 0.0385 | 0.0364 |
| 925 | 0.0189 | 0.0271 | 0.0296 | 0.0450 | 0.0314 | 0.0327 | 0.0350 | 0.0366 | 0.0354 | 0.0330 |
| 975 | 0.0185 | 0.0260 | 0.0306 | 0.0412 | 0.0321 | 0.0344 | 0.0369 | 0.0373 | 0.0400 | 0.0387 |
| 1025 | 0.0189 | 0.0253 | 0.0284 | 0.0406 | 0.0299 | 0.0329 | 0.0310 | 0.0313 | 0.0334 | 0.0333 |
| 1075 | 0.0186 | 0.0248 | 0.0274 | 0.0385 | 0.0293 | 0.0331 | 0.0324 | 0.0320 | 0.0355 | 0.0325 |
| 1125 | 0.0185 | 0.0239 | 0.0266 | 0.0409 | 0.0300 | 0.0327 | 0.0314 | 0.0336 | 0.0351 | 0.0344 |
| 1175 | 0.0183 | 0.0244 | 0.0285 | 0.0404 | 0.0303 | 0.0327 | 0.0319 | 0.0322 | 0.0352 | 0.0335 |
| 1225 | 0.0188 | 0.0240 | 0.0279 | 0.0395 | 0.0308 | 0.0315 | 0.0295 | 0.0322 | 0.0343 | 0.0340 |
| 1275 | 0.0200 | 0.0272 | 0.0275 | 0.0406 | 0.0313 | 0.0342 | 0.0336 | 0.0358 | 0.0367 | 0.0374 |
| 1325 | 0.0182 | 0.0247 | 0.0263 | 0.0404 | 0.0303 | 0.0328 | 0.0315 | 0.0307 | 0.0337 | 0.0345 |
| 1375 | 0.0180 | 0.0265 | 0.0276 | 0.0424 | 0.0316 | 0.0325 | 0.0326 | 0.0333 | 0.0350 | 0.0344 |
| 1425 | 0.0172 | 0.0244 | 0.0259 | 0.0423 | 0.0291 | 0.0317 | 0.0301 | 0.0309 | 0.0331 | 0.0327 |
| 1475 | 0.0181 | 0.0227 | 0.0244 | 0.0410 | 0.0302 | 0.0299 | 0.0305 | 0.0327 | 0.0334 | 0.0334 |
| 1525 | 0.0191 | 0.0249 | 0.0266 | 0.0426 | 0.0319 | 0.0316 | 0.0319 | 0.0328 | 0.0356 | 0.0375 |
| 1575 | 0.0251 | 0.0314 | 0.0314 | 0.0446 | 0.0317 | 0.0314 | 0.0306 | 0.0342 | 0.0354 | 0.0342 |
| 1625 | 0.0185 | 0.0237 | 0.0264 | 0.0434 | 0.0304 | 0.0321 | 0.0323 | 0.0351 | 0.0360 | 0.0341 |
| 1675 | 0.0196 | 0.0253 | 0.0253 | 0.0435 | 0.0326 | 0.0324 | 0.0327 | 0.0342 | 0.0381 | 0.0346 |
| 1725 | 0.0209 | 0.0233 | 0.0281 | 0.0440 | 0.0360 | 0.0334 | 0.0336 | 0.0381 | 0.0407 | 0.0401 |
| 1775 | 0.0231 | 0.0235 | 0.0292 | 0.0421 | 0.0416 | 0.0377 | 0.0378 | 0.0443 | 0.0480 | 0.0457 |
| 1825 | 0.0259 | 0.0262 | 0.0305 | 0.0421 | 0.0493 | 0.0427 | 0.0417 | 0.0487 | 0.0562 | 0.0507 |
| 1875 | 0.0254 | 0.0245 | 0.0319 | 0.0435 | 0.0487 | 0.0411 | 0.0441 | 0.0491 | 0.0553 | 0.0498 |
| 1925 | 0.0257 | 0.0279 | 0.0336 | 0.0395 | 0.0435 | 0.0400 | 0.0418 | 0.0463 | 0.0481 | 0.0467 |
| 1975 | 0.0270 | 0.0322 | 0.0419 | 0.0394 | 0.0530 | 0.0572 | 0.0601 | 0.0597 | 0.0568 | 0.0559 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 2.1 | 0.0199 | 0.0177 | 0.0196 | 0.0249 | 0.0219 | 0.0248 | 0.0259 | 0.0268 | 0.0272 | 0.0281 |
| 2.3 | 0.0185 | 0.0203 | 0.0252 | 0.0275 | 0.0343 | 0.0401 | 0.0409 | 0.0371 | 0.0368 | 0.0390 |
| 2.5 | 0.0139 | 0.0157 | 0.0175 | 0.0247 | 0.0207 | 0.0254 | 0.0224 | 0.0236 | 0.0226 | 0.0249 |
| 2.7 | 0.0124 | 0.0165 | 0.0197 | 0.0226 | 0.0197 | 0.0213 | 0.0211 | 0.0215 | 0.0218 | 0.0228 |
| 2.9 | 0.0108 | 0.0154 | 0.0177 | 0.0197 | 0.0197 | 0.0189 | 0.0188 | 0.0203 | 0.0198 | 0.0210 |
| 3.1 | 0.0120 | 0.0163 | 0.0191 | 0.0193 | 0.0174 | 0.0219 | 0.0198 | 0.0209 | 0.0201 | 0.0221 |
| 3.3 | 0.0121 | 0.0170 | 0.0185 | 0.0190 | 0.0186 | 0.0197 | 0.0208 | 0.0228 | 0.0216 | 0.0220 |
| 3.5 | 0.0122 | 0.0177 | 0.0181 | 0.0188 | 0.0223 | 0.0220 | 0.0198 | 0.0218 | 0.0222 | 0.0202 |
| 3.7 | 0.0108 | 0.0156 | 0.0216 | 0.0192 | 0.0203 | 0.0223 | 0.0194 | 0.0212 | 0.0210 | 0.0228 |
| 3.9 | 0.0115 | 0.0160 | 0.0179 | 0.0203 | 0.0190 | 0.0197 | 0.0214 | 0.0201 | 0.0216 | 0.0228 |
| 4.1 | 0.0122 | 0.0181 | 0.0192 | 0.0196 | 0.0211 | 0.0242 | 0.0217 | 0.0205 | 0.0203 | 0.0220 |
| 4.3 | 0.0114 | 0.0152 | 0.0189 | 0.0210 | 0.0185 | 0.0229 | 0.0210 | 0.0222 | 0.0213 | 0.0200 |
| 4.5 | 0.0120 | 0.0170 | 0.0176 | 0.0178 | 0.0214 | 0.0223 | 0.0233 | 0.0223 | 0.0199 | 0.0196 |
| 4.7 | 0.0112 | 0.0146 | 0.0175 | 0.0188 | 0.0207 | 0.0207 | 0.0213 | 0.0213 | 0.0217 | 0.0216 |
| 4.9 | 0.0114 | 0.0150 | 0.0176 | 0.0185 | 0.0182 | 0.0202 | 0.0185 | 0.0199 | 0.0213 | 0.0224 |
| 5.1 | 0.0116 | 0.0180 | 0.0176 | 0.0190 | 0.0184 | 0.0208 | 0.0222 | 0.0208 | 0.0201 | 0.0200 |
| 5.3 | 0.0106 | 0.0151 | 0.0182 | 0.0188 | 0.0187 | 0.0214 | 0.0212 | 0.0224 | 0.0223 | 0.0238 |
| 5.5 | 0.0128 | 0.0167 | 0.0181 | 0.0193 | 0.0207 | 0.0225 | 0.0224 | 0.0223 | 0.0211 | 0.0215 |
| 5.7 | 0.0115 | 0.0167 | 0.0174 | 0.0188 | 0.0200 | 0.0212 | 0.0210 | 0.0215 | 0.0225 | 0.0234 |
| 5.9 | 0.0119 | 0.0169 | 0.0170 | 0.0238 | 0.0209 | 0.0226 | 0.0229 | 0.0243 | 0.0244 | 0.0251 |
| 6.1 | 0.0135 | 0.0175 | 0.0195 | 0.0219 | 0.0221 | 0.0235 | 0.0246 | 0.0235 | 0.0266 | 0.0250 |
| 6.3 | 0.0124 | 0.0180 | 0.0194 | 0.0222 | 0.0201 | 0.0241 | 0.0224 | 0.0232 | 0.0221 | 0.0232 |
| 6.5 | 0.0120 | 0.0166 | 0.0188 | 0.0230 | 0.0206 | 0.0230 | 0.0243 | 0.0261 | 0.0269 | 0.0297 |
| 6.7 | 0.0131 | 0.0180 | 0.0193 | 0.0199 | 0.0205 | 0.0206 | 0.0215 | 0.0215 | 0.0232 | 0.0229 |
| 6.9 | 0.0134 | 0.0208 | 0.0222 | 0.0219 | 0.0229 | 0.0244 | 0.0222 | 0.0238 | 0.0243 | 0.0249 |
| 7.1 | 0.0120 | 0.0153 | 0.0185 | 0.0200 | 0.0192 | 0.0198 | 0.0194 | 0.0204 | 0.0217 | 0.0220 |
| 7.3 | 0.0115 | 0.0152 | 0.0175 | 0.0193 | 0.0201 | 0.0190 | 0.0199 | 0.0193 | 0.0208 | 0.0204 |
| 7.5 | 0.0120 | 0.0159 | 0.0189 | 0.0202 | 0.0215 | 0.0204 | 0.0221 | 0.0205 | 0.0194 | 0.0206 |
| 7.7 | 0.0112 | 0.0163 | 0.0168 | 0.0206 | 0.0171 | 0.0199 | 0.0175 | 0.0184 | 0.0212 | 0.0200 |
| 7.9 | 0.0107 | 0.0141 | 0.0163 | 0.0185 | 0.0181 | 0.0187 | 0.0174 | 0.0183 | 0.0182 | 0.0191 |
| 8.1 | 0.0109 | 0.0153 | 0.0162 | 0.0181 | 0.0174 | 0.0191 | 0.0195 | 0.0192 | 0.0197 | 0.0196 |
| 8.3 | 0.0105 | 0.0156 | 0.0194 | 0.0181 | 0.0178 | 0.0216 | 0.0210 | 0.0199 | 0.0182 | 0.0191 |
| 8.5 | 0.0110 | 0.0159 | 0.0169 | 0.0182 | 0.0214 | 0.0183 | 0.0175 | 0.0179 | 0.0181 | 0.0190 |
| 8.7 | 0.0100 | 0.0152 | 0.0169 | 0.0186 | 0.0182 | 0.0211 | 0.0213 | 0.0200 | 0.0207 | 0.0192 |
| 8.9 | 0.0105 | 0.0144 | 0.0176 | 0.0190 | 0.0182 | 0.0193 | 0.0181 | 0.0177 | 0.0169 | 0.0194 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Model: SPH 7000TL3 BH-UP, SPA 7000TL3 BH-UP | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] |
| 2 | 0.0533 | 0.0957 | 0.0730 | 0.0690 | 0.0966 | 0.1114 | 0.1351 | 0.1519 | 0.2002 | 0.2041 |
| 3 | 0.4596 | 0.5375 | 0.5740 | 0.5957 | 0.6114 | 0.6243 | 0.6272 | 0.6391 | 0.6400 | 0.6400 |
| 4 | 0.0335 | 0.0661 | 0.0947 | 0.1124 | 0.1331 | 0.1469 | 0.1844 | 0.2081 | 0.2278 | 0.2544 |
| 5 | 0.7160 | 0.8649 | 0.8185 | 0.7860 | 0.7899 | 0.8146 | 0.8511 | 0.8669 | 0.8402 | 0.8915 |
| 6 | 0.0345 | 0.0493 | 0.0533 | 0.0444 | 0.0454 | 0.0325 | 0.0335 | 0.0394 | 0.0365 | 0.0414 |
| 7 | 0.1272 | 0.3994 | 0.4704 | 0.5473 | 0.6183 | 0.6884 | 0.7268 | 0.7870 | 0.7525 | 0.8116 |
| 8 | 0.0404 | 0.0276 | 0.0316 | 0.0365 | 0.0424 | 0.0414 | 0.0394 | 0.0375 | 0.0385 | 0.0414 |
| 9 | 0.0641 | 0.0868 | 0.0720 | 0.0562 | 0.0572 | 0.0621 | 0.0641 | 0.0700 | 0.0720 | 0.0740 |
| 10 | 0.0316 | 0.0178 | 0.0197 | 0.0207 | 0.0237 | 0.0276 | 0.0296 | 0.0296 | 0.0345 | 0.0335 |
| 11 | 0.1154 | 0.0878 | 0.0276 | 0.1341 | 0.2387 | 0.3097 | 0.3619 | 0.3807 | 0.3728 | 0.4310 |
| 12 | 0.0227 | 0.0197 | 0.0187 | 0.0187 | 0.0217 | 0.0217 | 0.0256 | 0.0247 | 0.0247 | 0.0237 |
| 13 | 0.1174 | 0.0858 | 0.0572 | 0.0444 | 0.1321 | 0.2022 | 0.2426 | 0.2751 | 0.2525 | 0.2840 |
| 14 | 0.0197 | 0.0187 | 0.0168 | 0.0178 | 0.0187 | 0.0187 | 0.0217 | 0.0217 | 0.0227 | 0.0256 |
| 15 | 0.0217 | 0.0355 | 0.0266 | 0.0207 | 0.0286 | 0.0316 | 0.0325 | 0.0325 | 0.0335 | 0.0365 |
| 16 | 0.0276 | 0.0237 | 0.0247 | 0.0286 | 0.0325 | 0.0335 | 0.0355 | 0.0355 | 0.0345 | 0.0296 |
| 17 | 0.0325 | 0.0542 | 0.0542 | 0.0375 | 0.0335 | 0.0779 | 0.1134 | 0.1302 | 0.1233 | 0.1588 |
| 18 | 0.0217 | 0.0247 | 0.0237 | 0.0227 | 0.0237 | 0.0256 | 0.0276 | 0.0276 | 0.0256 | 0.0247 |
| 19 | 0.0473 | 0.0789 | 0.0641 | 0.0355 | 0.0414 | 0.0789 | 0.1075 | 0.1292 | 0.1154 | 0.1400 |
| 20 | 0.0178 | 0.0178 | 0.0178 | 0.0187 | 0.0207 | 0.0227 | 0.0266 | 0.0256 | 0.0286 | 0.0266 |
| 21 | 0.0158 | 0.0187 | 0.0197 | 0.0227 | 0.0178 | 0.0178 | 0.0187 | 0.0207 | 0.0197 | 0.0197 |
| 22 | 0.0168 | 0.0158 | 0.0168 | 0.0168 | 0.0168 | 0.0178 | 0.0187 | 0.0187 | 0.0178 | 0.0197 |
| 23 | 0.0296 | 0.0266 | 0.0365 | 0.0365 | 0.0306 | 0.0404 | 0.0582 | 0.0720 | 0.0730 | 0.0878 |
| 24 | 0.0148 | 0.0158 | 0.0168 | 0.0158 | 0.0178 | 0.0168 | 0.0168 | 0.0178 | 0.0178 | 0.0197 |
| 25 | 0.0414 | 0.0256 | 0.0345 | 0.0296 | 0.0237 | 0.0276 | 0.0434 | 0.0582 | 0.0533 | 0.0710 |
| 26 | 0.0158 | 0.0158 | 0.0158 | 0.0158 | 0.0158 | 0.0178 | 0.0168 | 0.0168 | 0.0158 | 0.0178 |
| 27 | 0.0138 | 0.0158 | 0.0158 | 0.0148 | 0.0168 | 0.0158 | 0.0158 | 0.0168 | 0.0178 | 0.0168 |
| 28 | 0.0158 | 0.0148 | 0.0148 | 0.0158 | 0.0178 | 0.0168 | 0.0178 | 0.0207 | 0.0197 | 0.0197 |
| 29 | 0.0296 | 0.0187 | 0.0217 | 0.0178 | 0.0237 | 0.0227 | 0.0256 | 0.0306 | 0.0345 | 0.0434 |
| 30 | 0.0168 | 0.0168 | 0.0158 | 0.0168 | 0.0168 | 0.0178 | 0.0187 | 0.0187 | 0.0217 | 0.0217 |
| 31 | 0.0227 | 0.0276 | 0.0178 | 0.0256 | 0.0266 | 0.0247 | 0.0335 | 0.0424 | 0.0404 | 0.0473 |
| 32 | 0.0158 | 0.0168 | 0.0168 | 0.0168 | 0.0178 | 0.0187 | 0.0187 | 0.0178 | 0.0207 | 0.0227 |
| 33 | 0.0178 | 0.0158 | 0.0197 | 0.0197 | 0.0217 | 0.0217 | 0.0227 | 0.0197 | 0.0227 | 0.0227 |
| 34 | 0.0148 | 0.0168 | 0.0217 | 0.0197 | 0.0217 | 0.0227 | 0.0237 | 0.0227 | 0.0237 | 0.0247 |
| 35 | 0.0217 | 0.0227 | 0.0296 | 0.0256 | 0.0286 | 0.0345 | 0.0325 | 0.0325 | 0.0404 | 0.0454 |
| 36 | 0.0207 | 0.0187 | 0.0276 | 0.0325 | 0.0375 | 0.0424 | 0.0394 | 0.0345 | 0.0434 | 0.0394 |
| 37 | 0.0286 | 0.0256 | 0.0276 | 0.0296 | 0.0335 | 0.0365 | 0.0365 | 0.0355 | 0.0394 | 0.0414 |
| 38 | 0.0197 | 0.0207 | 0.0316 | 0.0345 | 0.0355 | 0.0365 | 0.0375 | 0.0375 | 0.0375 | 0.0375 |
| 39 | 0.0237 | 0.0187 | 0.0365 | 0.0404 | 0.0355 | 0.0365 | 0.0385 | 0.0385 | 0.0385 | 0.0375 |
| 40 | 0.0237 | 0.0178 | 0.0227 | 0.0237 | 0.0247 | 0.0286 | 0.0286 | 0.0276 | 0.0296 | 0.0296 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 75 | 0.1962 | 0.2830 | 0.3215 | 0.3391 | 0.3818 | 0.3841 | 0.3942 | 0.4457 | 0.4962 | 0.4664 |
| 125 | 0.0448 | 0.0758 | 0.0940 | 0.0960 | 0.1114 | 0.1169 | 0.1135 | 0.1279 | 0.1581 | 0.1374 |
| 175 | 0.0331 | 0.0547 | 0.0666 | 0.0728 | 0.0790 | 0.0773 | 0.0793 | 0.0856 | 0.1025 | 0.0917 |
| 225 | 0.0396 | 0.0928 | 0.1205 | 0.1306 | 0.1343 | 0.1234 | 0.1141 | 0.1179 | 0.1399 | 0.1110 |
| 275 | 0.0441 | 0.0696 | 0.0843 | 0.0878 | 0.0951 | 0.0880 | 0.0812 | 0.0740 | 0.0845 | 0.0761 |
| 325 | 0.0260 | 0.0487 | 0.0728 | 0.0865 | 0.0977 | 0.0868 | 0.0777 | 0.0762 | 0.0910 | 0.0741 |
| 375 | 0.0265 | 0.0445 | 0.0669 | 0.0765 | 0.0834 | 0.0831 | 0.0809 | 0.0718 | 0.0802 | 0.0631 |
| 425 | 0.0202 | 0.0276 | 0.0301 | 0.0303 | 0.0324 | 0.0371 | 0.0358 | 0.0329 | 0.0390 | 0.0341 |
| 475 | 0.0216 | 0.0259 | 0.0282 | 0.0285 | 0.0296 | 0.0332 | 0.0339 | 0.0306 | 0.0377 | 0.0334 |
| 525 | 0.0265 | 0.0286 | 0.0310 | 0.0400 | 0.0451 | 0.0502 | 0.0478 | 0.0444 | 0.0547 | 0.0438 |
| 575 | 0.0208 | 0.0236 | 0.0264 | 0.0349 | 0.0416 | 0.0379 | 0.0435 | 0.0423 | 0.0469 | 0.0374 |
| 625 | 0.0249 | 0.0278 | 0.0269 | 0.0322 | 0.0373 | 0.0419 | 0.0416 | 0.0370 | 0.0454 | 0.0362 |
| 675 | 0.0203 | 0.0284 | 0.0272 | 0.0321 | 0.0406 | 0.0400 | 0.0408 | 0.0438 | 0.0451 | 0.0406 |
| 725 | 0.0177 | 0.0220 | 0.0273 | 0.0265 | 0.0273 | 0.0270 | 0.0288 | 0.0299 | 0.0344 | 0.0308 |
| 775 | 0.0168 | 0.0226 | 0.0241 | 0.0258 | 0.0275 | 0.0268 | 0.0297 | 0.0289 | 0.0333 | 0.0305 |
| 825 | 0.0181 | 0.0238 | 0.0257 | 0.0272 | 0.0289 | 0.0307 | 0.0332 | 0.0318 | 0.0366 | 0.0333 |
| 875 | 0.0166 | 0.0247 | 0.0250 | 0.0263 | 0.0274 | 0.0311 | 0.0302 | 0.0336 | 0.0357 | 0.0310 |
| 925 | 0.0173 | 0.0245 | 0.0258 | 0.0241 | 0.0281 | 0.0298 | 0.0304 | 0.0303 | 0.0354 | 0.0312 |
| 975 | 0.0176 | 0.0237 | 0.0250 | 0.0251 | 0.0278 | 0.0293 | 0.0308 | 0.0332 | 0.0347 | 0.0323 |
| 1025 | 0.0163 | 0.0206 | 0.0226 | 0.0244 | 0.0246 | 0.0257 | 0.0276 | 0.0289 | 0.0329 | 0.0282 |
| 1075 | 0.0164 | 0.0216 | 0.0227 | 0.0247 | 0.0250 | 0.0263 | 0.0266 | 0.0279 | 0.0310 | 0.0274 |
| 1125 | 0.0169 | 0.0213 | 0.0232 | 0.0244 | 0.0258 | 0.0265 | 0.0272 | 0.0292 | 0.0337 | 0.0275 |
| 1175 | 0.0154 | 0.0198 | 0.0228 | 0.0250 | 0.0247 | 0.0268 | 0.0282 | 0.0275 | 0.0308 | 0.0295 |
| 1225 | 0.0161 | 0.0211 | 0.0237 | 0.0252 | 0.0275 | 0.0264 | 0.0269 | 0.0254 | 0.0330 | 0.0288 |
| 1275 | 0.0179 | 0.0211 | 0.0235 | 0.0263 | 0.0270 | 0.0282 | 0.0306 | 0.0311 | 0.0330 | 0.0313 |
| 1325 | 0.0158 | 0.0201 | 0.0222 | 0.0244 | 0.0252 | 0.0272 | 0.0266 | 0.0275 | 0.0321 | 0.0279 |
| 1375 | 0.0167 | 0.0221 | 0.0235 | 0.0238 | 0.0247 | 0.0265 | 0.0267 | 0.0283 | 0.0317 | 0.0280 |
| 1425 | 0.0167 | 0.0204 | 0.0212 | 0.0248 | 0.0244 | 0.0251 | 0.0269 | 0.0276 | 0.0316 | 0.0295 |
| 1475 | 0.0155 | 0.0206 | 0.0216 | 0.0232 | 0.0257 | 0.0257 | 0.0270 | 0.0268 | 0.0303 | 0.0274 |
| 1525 | 0.0171 | 0.0217 | 0.0229 | 0.0257 | 0.0264 | 0.0263 | 0.0265 | 0.0293 | 0.0339 | 0.0310 |
| 1575 | 0.0223 | 0.0261 | 0.0244 | 0.0244 | 0.0257 | 0.0272 | 0.0282 | 0.0276 | 0.0331 | 0.0297 |
| 1625 | 0.0164 | 0.0202 | 0.0236 | 0.0242 | 0.0247 | 0.0274 | 0.0290 | 0.0286 | 0.0326 | 0.0288 |
| 1675 | 0.0166 | 0.0203 | 0.0232 | 0.0252 | 0.0260 | 0.0281 | 0.0296 | 0.0292 | 0.0342 | 0.0317 |
| 1725 | 0.0172 | 0.0206 | 0.0244 | 0.0269 | 0.0270 | 0.0281 | 0.0328 | 0.0309 | 0.0371 | 0.0345 |
| 1775 | 0.0194 | 0.0204 | 0.0252 | 0.0263 | 0.0278 | 0.0306 | 0.0315 | 0.0311 | 0.0381 | 0.0344 |
| 1825 | 0.0203 | 0.0212 | 0.0287 | 0.0308 | 0.0327 | 0.0349 | 0.0376 | 0.0378 | 0.0448 | 0.0414 |
| 1875 | 0.0217 | 0.0206 | 0.0278 | 0.0302 | 0.0314 | 0.0333 | 0.0340 | 0.0328 | 0.0381 | 0.0371 |
| 1925 | 0.0226 | 0.0207 | 0.0266 | 0.0299 | 0.0309 | 0.0329 | 0.0339 | 0.0340 | 0.0393 | 0.0357 |
| 1975 | 0.0237 | 0.0237 | 0.0333 | 0.0318 | 0.0315 | 0.0340 | 0.0354 | 0.0340 | 0.0387 | 0.0353 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 2.1 | 0.0192 | 0.0154 | 0.0185 | 0.0226 | 0.0221 | 0.0219 | 0.0222 | 0.0239 | 0.0296 | 0.0253 |
| 2.3 | 0.0157 | 0.0156 | 0.0209 | 0.0269 | 0.0268 | 0.0253 | 0.0295 | 0.0274 | 0.0299 | 0.0290 |
| 2.5 | 0.0101 | 0.0141 | 0.0143 | 0.0159 | 0.0180 | 0.0183 | 0.0168 | 0.0179 | 0.0199 | 0.0196 |
| 2.7 | 0.0093 | 0.0145 | 0.0149 | 0.0168 | 0.0170 | 0.0171 | 0.0167 | 0.0181 | 0.0222 | 0.0180 |
| 2.9 | 0.0091 | 0.0137 | 0.0149 | 0.0151 | 0.0150 | 0.0164 | 0.0167 | 0.0173 | 0.0203 | 0.0189 |
| 3.1 | 0.0100 | 0.0137 | 0.0146 | 0.0163 | 0.0182 | 0.0170 | 0.0178 | 0.0176 | 0.0206 | 0.0173 |
| 3.3 | 0.0100 | 0.0142 | 0.0150 | 0.0151 | 0.0174 | 0.0171 | 0.0182 | 0.0178 | 0.0197 | 0.0198 |
| 3.5 | 0.0104 | 0.0157 | 0.0174 | 0.0176 | 0.0167 | 0.0171 | 0.0170 | 0.0185 | 0.0199 | 0.0177 |
| 3.7 | 0.0094 | 0.0112 | 0.0138 | 0.0150 | 0.0153 | 0.0165 | 0.0154 | 0.0158 | 0.0203 | 0.0168 |
| 3.9 | 0.0092 | 0.0132 | 0.0143 | 0.0151 | 0.0162 | 0.0155 | 0.0163 | 0.0175 | 0.0206 | 0.0189 |
| 4.1 | 0.0119 | 0.0141 | 0.0169 | 0.0194 | 0.0173 | 0.0162 | 0.0169 | 0.0182 | 0.0188 | 0.0169 |
| 4.3 | 0.0102 | 0.0129 | 0.0134 | 0.0148 | 0.0148 | 0.0150 | 0.0165 | 0.0169 | 0.0210 | 0.0159 |
| 4.5 | 0.0106 | 0.0131 | 0.0145 | 0.0167 | 0.0162 | 0.0150 | 0.0183 | 0.0171 | 0.0178 | 0.0189 |
| 4.7 | 0.0090 | 0.0121 | 0.0135 | 0.0140 | 0.0151 | 0.0159 | 0.0157 | 0.0158 | 0.0189 | 0.0190 |
| 4.9 | 0.0102 | 0.0136 | 0.0147 | 0.0149 | 0.0153 | 0.0147 | 0.0156 | 0.0176 | 0.0174 | 0.0174 |
| 5.1 | 0.0103 | 0.0131 | 0.0156 | 0.0160 | 0.0156 | 0.0172 | 0.0177 | 0.0175 | 0.0194 | 0.0182 |
| 5.3 | 0.0108 | 0.0128 | 0.0137 | 0.0152 | 0.0166 | 0.0153 | 0.0165 | 0.0178 | 0.0196 | 0.0180 |
| 5.5 | 0.0094 | 0.0126 | 0.0140 | 0.0161 | 0.0155 | 0.0159 | 0.0169 | 0.0174 | 0.0201 | 0.0188 |
| 5.7 | 0.0108 | 0.0142 | 0.0142 | 0.0170 | 0.0160 | 0.0165 | 0.0150 | 0.0159 | 0.0209 | 0.0197 |
| 5.9 | 0.0108 | 0.0132 | 0.0159 | 0.0165 | 0.0185 | 0.0168 | 0.0192 | 0.0203 | 0.0213 | 0.0219 |
| 6.1 | 0.0116 | 0.0150 | 0.0164 | 0.0180 | 0.0183 | 0.0190 | 0.0205 | 0.0205 | 0.0244 | 0.0226 |
| 6.3 | 0.0110 | 0.0130 | 0.0154 | 0.0168 | 0.0183 | 0.0174 | 0.0188 | 0.0203 | 0.0210 | 0.0171 |
| 6.5 | 0.0105 | 0.0138 | 0.0144 | 0.0147 | 0.0163 | 0.0174 | 0.0193 | 0.0233 | 0.0253 | 0.0232 |
| 6.7 | 0.0098 | 0.0138 | 0.0155 | 0.0162 | 0.0159 | 0.0157 | 0.0165 | 0.0173 | 0.0208 | 0.0177 |
| 6.9 | 0.0111 | 0.0161 | 0.0173 | 0.0179 | 0.0185 | 0.0194 | 0.0178 | 0.0193 | 0.0224 | 0.0214 |
| 7.1 | 0.0094 | 0.0129 | 0.0132 | 0.0147 | 0.0147 | 0.0162 | 0.0164 | 0.0159 | 0.0199 | 0.0179 |
| 7.3 | 0.0094 | 0.0121 | 0.0132 | 0.0151 | 0.0158 | 0.0152 | 0.0161 | 0.0155 | 0.0180 | 0.0167 |
| 7.5 | 0.0099 | 0.0129 | 0.0143 | 0.0147 | 0.0153 | 0.0157 | 0.0172 | 0.0173 | 0.0194 | 0.0174 |
| 7.7 | 0.0096 | 0.0116 | 0.0131 | 0.0142 | 0.0149 | 0.0153 | 0.0147 | 0.0153 | 0.0193 | 0.0170 |
| 7.9 | 0.0091 | 0.0129 | 0.0139 | 0.0132 | 0.0151 | 0.0150 | 0.0148 | 0.0157 | 0.0174 | 0.0164 |
| 8.1 | 0.0092 | 0.0131 | 0.0141 | 0.0147 | 0.0167 | 0.0153 | 0.0151 | 0.0177 | 0.0185 | 0.0184 |
| 8.3 | 0.0088 | 0.0127 | 0.0129 | 0.0130 | 0.0148 | 0.0148 | 0.0132 | 0.0142 | 0.0176 | 0.0150 |
| 8.5 | 0.0088 | 0.0140 | 0.0172 | 0.0155 | 0.0141 | 0.0136 | 0.0157 | 0.0163 | 0.0165 | 0.0153 |
| 8.7 | 0.0100 | 0.0123 | 0.0134 | 0.0151 | 0.0159 | 0.0162 | 0.0161 | 0.0174 | 0.0179 | 0.0168 |
| 8.9 | 0.0087 | 0.0112 | 0.0130 | 0.0141 | 0.0144 | 0.0146 | 0.0159 | 0.0142 | 0.0163 | 0.0139 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Model: SPH 8000TL3 BH-UP, SPA 8000TL3 BH-UP | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] |
| 2 | 0.0854 | 0.0708 | 1.4909 | 0.2856 | 0.3727 | 0.4443 | 0.5168 | 0.5893 | 0.6402 | 0.6221 |
| 3 | 0.4124 | 0.4780 | 0.5298 | 0.5272 | 0.5384 | 0.5470 | 0.5557 | 0.5565 | 0.5548 | 0.5505 |
| 4 | 0.0475 | 0.0699 | 0.3296 | 0.2502 | 0.2977 | 0.3624 | 0.4193 | 0.4745 | 0.5160 | 0.5418 |
| 5 | 0.6739 | 0.7489 | 0.6868 | 0.6825 | 0.6963 | 0.7368 | 0.7412 | 0.7506 | 0.7679 | 0.7990 |
| 6 | 0.0431 | 0.0380 | 0.2079 | 0.0509 | 0.0535 | 0.0552 | 0.0587 | 0.0569 | 0.0561 | 0.0578 |
| 7 | 0.1700 | 0.3650 | 0.4297 | 0.5073 | 0.5764 | 0.6109 | 0.6764 | 0.6937 | 0.7161 | 0.7204 |
| 8 | 0.0242 | 0.0250 | 0.1001 | 0.0664 | 0.0621 | 0.0500 | 0.0371 | 0.0397 | 0.0431 | 0.0457 |
| 9 | 0.0664 | 0.0708 | 0.0578 | 0.0492 | 0.0552 | 0.0569 | 0.0604 | 0.0656 | 0.0664 | 0.0647 |
| 10 | 0.0190 | 0.0164 | 0.0406 | 0.0638 | 0.0777 | 0.0716 | 0.0716 | 0.0673 | 0.0638 | 0.0518 |
| 11 | 0.0915 | 0.0613 | 0.0569 | 0.1682 | 0.2502 | 0.2994 | 0.3261 | 0.3469 | 0.3693 | 0.3909 |
| 12 | 0.0164 | 0.0173 | 0.0328 | 0.0181 | 0.0190 | 0.0207 | 0.0190 | 0.0216 | 0.0207 | 0.0207 |
| 13 | 0.1001 | 0.0725 | 0.0285 | 0.0802 | 0.1562 | 0.1959 | 0.2286 | 0.2347 | 0.2450 | 0.2519 |
| 14 | 0.0173 | 0.0164 | 0.0224 | 0.0311 | 0.0423 | 0.0466 | 0.0457 | 0.0431 | 0.0449 | 0.0380 |
| 15 | 0.0164 | 0.0311 | 0.0233 | 0.0207 | 0.0259 | 0.0276 | 0.0302 | 0.0319 | 0.0328 | 0.0354 |
| 16 | 0.0242 | 0.0216 | 0.0276 | 0.0431 | 0.0587 | 0.0647 | 0.0587 | 0.0483 | 0.0440 | 0.0414 |
| 17 | 0.0345 | 0.0466 | 0.0423 | 0.0224 | 0.0535 | 0.0854 | 0.1061 | 0.1225 | 0.1337 | 0.1398 |
| 18 | 0.0190 | 0.0190 | 0.0276 | 0.0198 | 0.0198 | 0.0181 | 0.0198 | 0.0181 | 0.0190 | 0.0198 |
| 19 | 0.0354 | 0.0682 | 0.0440 | 0.0276 | 0.0561 | 0.0846 | 0.1009 | 0.1079 | 0.1182 | 0.1217 |
| 20 | 0.0155 | 0.0164 | 0.0233 | 0.0224 | 0.0345 | 0.0414 | 0.0406 | 0.0380 | 0.0371 | 0.0345 |
| 21 | 0.0147 | 0.0138 | 0.0207 | 0.0190 | 0.0164 | 0.0173 | 0.0164 | 0.0181 | 0.0164 | 0.0155 |
| 22 | 0.0147 | 0.0138 | 0.0207 | 0.0147 | 0.0207 | 0.0285 | 0.0319 | 0.0311 | 0.0319 | 0.0285 |
| 23 | 0.0293 | 0.0302 | 0.0311 | 0.0293 | 0.0311 | 0.0466 | 0.0578 | 0.0682 | 0.0733 | 0.0802 |
| 24 | 0.0155 | 0.0164 | 0.0242 | 0.0147 | 0.0155 | 0.0155 | 0.0147 | 0.0164 | 0.0155 | 0.0164 |
| 25 | 0.0319 | 0.0302 | 0.0242 | 0.0224 | 0.0233 | 0.0336 | 0.0440 | 0.0526 | 0.0604 | 0.0647 |
| 26 | 0.0129 | 0.0138 | 0.0198 | 0.0147 | 0.0181 | 0.0216 | 0.0233 | 0.0242 | 0.0250 | 0.0242 |
| 27 | 0.0138 | 0.0147 | 0.0181 | 0.0129 | 0.0147 | 0.0147 | 0.0155 | 0.0155 | 0.0164 | 0.0155 |
| 28 | 0.0129 | 0.0138 | 0.0207 | 0.0173 | 0.0190 | 0.0233 | 0.0259 | 0.0285 | 0.0302 | 0.0259 |
| 29 | 0.0259 | 0.0173 | 0.0181 | 0.0181 | 0.0190 | 0.0207 | 0.0233 | 0.0293 | 0.0345 | 0.0397 |
| 30 | 0.0138 | 0.0155 | 0.0173 | 0.0147 | 0.0164 | 0.0155 | 0.0147 | 0.0164 | 0.0155 | 0.0173 |
| 31 | 0.0216 | 0.0190 | 0.0224 | 0.0250 | 0.0224 | 0.0267 | 0.0293 | 0.0354 | 0.0388 | 0.0414 |
| 32 | 0.0147 | 0.0155 | 0.0181 | 0.0190 | 0.0164 | 0.0190 | 0.0198 | 0.0216 | 0.0224 | 0.0224 |
| 33 | 0.0155 | 0.0164 | 0.0198 | 0.0173 | 0.0173 | 0.0190 | 0.0181 | 0.0181 | 0.0181 | 0.0216 |
| 34 | 0.0129 | 0.0147 | 0.0198 | 0.0216 | 0.0207 | 0.0250 | 0.0242 | 0.0242 | 0.0233 | 0.0242 |
| 35 | 0.0173 | 0.0207 | 0.0216 | 0.0250 | 0.0285 | 0.0285 | 0.0276 | 0.0285 | 0.0302 | 0.0354 |
| 36 | 0.0173 | 0.0181 | 0.0198 | 0.0259 | 0.0285 | 0.0293 | 0.0259 | 0.0242 | 0.0233 | 0.0302 |
| 37 | 0.0242 | 0.0242 | 0.0198 | 0.0259 | 0.0293 | 0.0311 | 0.0293 | 0.0319 | 0.0285 | 0.0380 |
| 38 | 0.0198 | 0.0233 | 0.0181 | 0.0293 | 0.0293 | 0.0285 | 0.0276 | 0.0336 | 0.0293 | 0.0336 |
| 39 | 0.0173 | 0.0207 | 0.0181 | 0.0302 | 0.0311 | 0.0293 | 0.0285 | 0.0336 | 0.0354 | 0.0362 |
| 40 | 0.0173 | 0.0181 | 0.0198 | 0.0224 | 0.0233 | 0.0233 | 0.0242 | 0.0276 | 0.0250 | 0.0276 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 75 | 0.1652 | 0.2458 | 0.4388 | 0.3378 | 0.3456 | 0.3547 | 0.3678 | 0.3919 | 0.4015 | 0.4036 |
| 125 | 0.0438 | 0.0687 | 0.2105 | 0.0911 | 0.1008 | 0.1073 | 0.1104 | 0.1241 | 0.1212 | 0.1332 |
| 175 | 0.0344 | 0.0553 | 0.1073 | 0.0704 | 0.0747 | 0.0740 | 0.0734 | 0.0852 | 0.0810 | 0.0787 |
| 225 | 0.0453 | 0.0867 | 0.1247 | 0.1171 | 0.1134 | 0.1108 | 0.1057 | 0.0962 | 0.1035 | 0.0951 |
| 275 | 0.0444 | 0.0642 | 0.0938 | 0.0949 | 0.0844 | 0.0706 | 0.0626 | 0.0638 | 0.0658 | 0.0568 |
| 325 | 0.0259 | 0.0471 | 0.0860 | 0.0838 | 0.0729 | 0.0655 | 0.0657 | 0.0590 | 0.0611 | 0.0570 |
| 375 | 0.0233 | 0.0438 | 0.0683 | 0.0784 | 0.0787 | 0.0678 | 0.0574 | 0.0612 | 0.0570 | 0.0546 |
| 425 | 0.0216 | 0.0272 | 0.0342 | 0.0308 | 0.0320 | 0.0297 | 0.0283 | 0.0347 | 0.0312 | 0.0301 |
| 475 | 0.0212 | 0.0237 | 0.0294 | 0.0330 | 0.0354 | 0.0294 | 0.0286 | 0.0318 | 0.0289 | 0.0295 |
| 525 | 0.0252 | 0.0261 | 0.0303 | 0.0402 | 0.0426 | 0.0387 | 0.0376 | 0.0415 | 0.0366 | 0.0369 |
| 575 | 0.0205 | 0.0235 | 0.0312 | 0.0359 | 0.0381 | 0.0390 | 0.0336 | 0.0332 | 0.0353 | 0.0349 |
| 625 | 0.0222 | 0.0257 | 0.0290 | 0.0318 | 0.0362 | 0.0325 | 0.0321 | 0.0335 | 0.0302 | 0.0307 |
| 675 | 0.0218 | 0.0255 | 0.0273 | 0.0334 | 0.0345 | 0.0388 | 0.0340 | 0.0341 | 0.0366 | 0.0335 |
| 725 | 0.0165 | 0.0232 | 0.0254 | 0.0238 | 0.0252 | 0.0262 | 0.0257 | 0.0278 | 0.0265 | 0.0272 |
| 775 | 0.0177 | 0.0222 | 0.0245 | 0.0240 | 0.0245 | 0.0252 | 0.0236 | 0.0276 | 0.0257 | 0.0245 |
| 825 | 0.0170 | 0.0232 | 0.0242 | 0.0243 | 0.0266 | 0.0264 | 0.0265 | 0.0264 | 0.0279 | 0.0269 |
| 875 | 0.0169 | 0.0237 | 0.0237 | 0.0252 | 0.0255 | 0.0285 | 0.0267 | 0.0266 | 0.0272 | 0.0278 |
| 925 | 0.0168 | 0.0229 | 0.0258 | 0.0242 | 0.0258 | 0.0264 | 0.0255 | 0.0258 | 0.0257 | 0.0254 |
| 975 | 0.0158 | 0.0231 | 0.0246 | 0.0241 | 0.0248 | 0.0284 | 0.0281 | 0.0293 | 0.0278 | 0.0289 |
| 1025 | 0.0164 | 0.0220 | 0.0238 | 0.0218 | 0.0225 | 0.0242 | 0.0238 | 0.0253 | 0.0252 | 0.0241 |
| 1075 | 0.0167 | 0.0215 | 0.0246 | 0.0216 | 0.0224 | 0.0241 | 0.0242 | 0.0250 | 0.0253 | 0.0224 |
| 1125 | 0.0162 | 0.0200 | 0.0240 | 0.0231 | 0.0236 | 0.0245 | 0.0241 | 0.0242 | 0.0249 | 0.0251 |
| 1175 | 0.0159 | 0.0218 | 0.0243 | 0.0227 | 0.0234 | 0.0258 | 0.0247 | 0.0242 | 0.0246 | 0.0230 |
| 1225 | 0.0158 | 0.0216 | 0.0251 | 0.0225 | 0.0222 | 0.0239 | 0.0246 | 0.0240 | 0.0248 | 0.0243 |
| 1275 | 0.0164 | 0.0220 | 0.0276 | 0.0218 | 0.0257 | 0.0266 | 0.0263 | 0.0270 | 0.0283 | 0.0261 |
| 1325 | 0.0169 | 0.0206 | 0.0271 | 0.0217 | 0.0215 | 0.0228 | 0.0231 | 0.0245 | 0.0236 | 0.0236 |
| 1375 | 0.0164 | 0.0212 | 0.0270 | 0.0225 | 0.0244 | 0.0248 | 0.0245 | 0.0242 | 0.0253 | 0.0256 |
| 1425 | 0.0154 | 0.0191 | 0.0265 | 0.0221 | 0.0213 | 0.0248 | 0.0234 | 0.0247 | 0.0245 | 0.0238 |
| 1475 | 0.0152 | 0.0191 | 0.0273 | 0.0217 | 0.0210 | 0.0226 | 0.0227 | 0.0233 | 0.0243 | 0.0238 |
| 1525 | 0.0153 | 0.0214 | 0.0304 | 0.0213 | 0.0236 | 0.0240 | 0.0245 | 0.0251 | 0.0257 | 0.0258 |
| 1575 | 0.0226 | 0.0242 | 0.0295 | 0.0218 | 0.0225 | 0.0241 | 0.0241 | 0.0252 | 0.0251 | 0.0252 |
| 1625 | 0.0156 | 0.0207 | 0.0318 | 0.0230 | 0.0231 | 0.0243 | 0.0234 | 0.0239 | 0.0259 | 0.0237 |
| 1675 | 0.0149 | 0.0202 | 0.0337 | 0.0230 | 0.0236 | 0.0238 | 0.0246 | 0.0258 | 0.0251 | 0.0253 |
| 1725 | 0.0155 | 0.0196 | 0.0320 | 0.0250 | 0.0251 | 0.0253 | 0.0254 | 0.0250 | 0.0283 | 0.0303 |
| 1775 | 0.0155 | 0.0208 | 0.0271 | 0.0265 | 0.0241 | 0.0257 | 0.0277 | 0.0283 | 0.0314 | 0.0307 |
| 1825 | 0.0164 | 0.0226 | 0.0256 | 0.0263 | 0.0275 | 0.0285 | 0.0287 | 0.0298 | 0.0328 | 0.0336 |
| 1875 | 0.0162 | 0.0213 | 0.0245 | 0.0263 | 0.0262 | 0.0278 | 0.0283 | 0.0295 | 0.0294 | 0.0308 |
| 1925 | 0.0170 | 0.0236 | 0.0246 | 0.0260 | 0.0264 | 0.0270 | 0.0279 | 0.0301 | 0.0286 | 0.0307 |
| 1975 | 0.0171 | 0.0299 | 0.0243 | 0.0296 | 0.0298 | 0.0292 | 0.0318 | 0.0340 | 0.0317 | 0.0334 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 2.1 | 0.0123 | 0.0160 | 0.0160 | 0.0173 | 0.0196 | 0.0200 | 0.0195 | 0.0206 | 0.0209 | 0.0230 |
| 2.3 | 0.0171 | 0.0163 | 0.0195 | 0.0258 | 0.0262 | 0.0247 | 0.0271 | 0.0267 | 0.0291 | 0.0286 |
| 2.5 | 0.0109 | 0.0130 | 0.0206 | 0.0165 | 0.0155 | 0.0180 | 0.0172 | 0.0160 | 0.0202 | 0.0193 |
| 2.7 | 0.0101 | 0.0129 | 0.0152 | 0.0155 | 0.0154 | 0.0144 | 0.0161 | 0.0148 | 0.0150 | 0.0156 |
| 2.9 | 0.0094 | 0.0116 | 0.0134 | 0.0136 | 0.0162 | 0.0146 | 0.0151 | 0.0167 | 0.0186 | 0.0178 |
| 3.1 | 0.0095 | 0.0122 | 0.0131 | 0.0157 | 0.0144 | 0.0158 | 0.0155 | 0.0169 | 0.0172 | 0.0170 |
| 3.3 | 0.0099 | 0.0139 | 0.0126 | 0.0137 | 0.0143 | 0.0137 | 0.0149 | 0.0153 | 0.0152 | 0.0161 |
| 3.5 | 0.0100 | 0.0118 | 0.0135 | 0.0148 | 0.0185 | 0.0171 | 0.0171 | 0.0180 | 0.0193 | 0.0176 |
| 3.7 | 0.0093 | 0.0113 | 0.0143 | 0.0128 | 0.0147 | 0.0154 | 0.0167 | 0.0157 | 0.0178 | 0.0169 |
| 3.9 | 0.0110 | 0.0129 | 0.0132 | 0.0141 | 0.0130 | 0.0140 | 0.0149 | 0.0155 | 0.0153 | 0.0156 |
| 4.1 | 0.0105 | 0.0127 | 0.0143 | 0.0159 | 0.0163 | 0.0159 | 0.0175 | 0.0186 | 0.0188 | 0.0184 |
| 4.3 | 0.0101 | 0.0129 | 0.0137 | 0.0163 | 0.0153 | 0.0168 | 0.0168 | 0.0154 | 0.0169 | 0.0174 |
| 4.5 | 0.0110 | 0.0150 | 0.0132 | 0.0140 | 0.0142 | 0.0140 | 0.0156 | 0.0150 | 0.0155 | 0.0160 |
| 4.7 | 0.0099 | 0.0128 | 0.0133 | 0.0144 | 0.0149 | 0.0167 | 0.0154 | 0.0169 | 0.0173 | 0.0185 |
| 4.9 | 0.0102 | 0.0125 | 0.0140 | 0.0145 | 0.0155 | 0.0161 | 0.0161 | 0.0151 | 0.0167 | 0.0171 |
| 5.1 | 0.0106 | 0.0149 | 0.0143 | 0.0140 | 0.0139 | 0.0143 | 0.0144 | 0.0158 | 0.0159 | 0.0157 |
| 5.3 | 0.0099 | 0.0129 | 0.0125 | 0.0133 | 0.0153 | 0.0170 | 0.0156 | 0.0161 | 0.0186 | 0.0178 |
| 5.5 | 0.0103 | 0.0135 | 0.0143 | 0.0152 | 0.0163 | 0.0162 | 0.0165 | 0.0170 | 0.0159 | 0.0165 |
| 5.7 | 0.0105 | 0.0140 | 0.0123 | 0.0146 | 0.0146 | 0.0150 | 0.0149 | 0.0160 | 0.0158 | 0.0174 |
| 5.9 | 0.0106 | 0.0135 | 0.0151 | 0.0148 | 0.0161 | 0.0176 | 0.0192 | 0.0195 | 0.0205 | 0.0226 |
| 6.1 | 0.0112 | 0.0130 | 0.0144 | 0.0172 | 0.0165 | 0.0177 | 0.0187 | 0.0212 | 0.0215 | 0.0205 |
| 6.3 | 0.0105 | 0.0141 | 0.0137 | 0.0151 | 0.0168 | 0.0161 | 0.0172 | 0.0167 | 0.0163 | 0.0153 |
| 6.5 | 0.0099 | 0.0113 | 0.0150 | 0.0170 | 0.0198 | 0.0225 | 0.0240 | 0.0263 | 0.0255 | 0.0248 |
| 6.7 | 0.0107 | 0.0132 | 0.0145 | 0.0152 | 0.0171 | 0.0179 | 0.0186 | 0.0187 | 0.0206 | 0.0205 |
| 6.9 | 0.0126 | 0.0146 | 0.0144 | 0.0161 | 0.0161 | 0.0166 | 0.0174 | 0.0178 | 0.0174 | 0.0198 |
| 7.1 | 0.0104 | 0.0137 | 0.0140 | 0.0146 | 0.0149 | 0.0157 | 0.0155 | 0.0182 | 0.0182 | 0.0187 |
| 7.3 | 0.0104 | 0.0121 | 0.0140 | 0.0147 | 0.0148 | 0.0143 | 0.0138 | 0.0149 | 0.0163 | 0.0175 |
| 7.5 | 0.0100 | 0.0132 | 0.0131 | 0.0134 | 0.0150 | 0.0138 | 0.0137 | 0.0127 | 0.0148 | 0.0149 |
| 7.7 | 0.0094 | 0.0125 | 0.0125 | 0.0128 | 0.0139 | 0.0143 | 0.0151 | 0.0152 | 0.0159 | 0.0160 |
| 7.9 | 0.0091 | 0.0123 | 0.0119 | 0.0136 | 0.0145 | 0.0145 | 0.0143 | 0.0152 | 0.0152 | 0.0140 |
| 8.1 | 0.0100 | 0.0133 | 0.0127 | 0.0147 | 0.0128 | 0.0128 | 0.0140 | 0.0141 | 0.0143 | 0.0144 |
| 8.3 | 0.0093 | 0.0116 | 0.0120 | 0.0125 | 0.0135 | 0.0126 | 0.0130 | 0.0137 | 0.0151 | 0.0160 |
| 8.5 | 0.0100 | 0.0118 | 0.0117 | 0.0130 | 0.0147 | 0.0169 | 0.0149 | 0.0154 | 0.0154 | 0.0132 |
| 8.7 | 0.0106 | 0.0120 | 0.0131 | 0.0132 | 0.0129 | 0.0132 | 0.0140 | 0.0135 | 0.0137 | 0.0135 |
| 8.9 | 0.0090 | 0.0124 | 0.0119 | 0.0125 | 0.0130 | 0.0135 | 0.0127 | 0.0130 | 0.0140 | 0.0132 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Model: SPH 10000TL3 BH-UP, SPA 10000TL3 BH-UP | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Ordinal number (Ordnungszahl) | I [%] |
| 2 | 0.0442 | 0.0738 | 0.1263 | 0.1850 | 0.2291 | 0.2747 | 0.3161 | 0.3478 | 0.3823 | 0.4168 |
| 3 | 0.3609 | 0.4134 | 0.4306 | 0.4451 | 0.4507 | 0.4548 | 0.4582 | 0.4576 | 0.4576 | 0.4576 |
| 4 | 0.0683 | 0.1077 | 0.1208 | 0.1567 | 0.2077 | 0.2436 | 0.2767 | 0.3264 | 0.3644 | 0.3920 |
| 5 | 0.5804 | 0.5811 | 0.5514 | 0.5666 | 0.6032 | 0.6080 | 0.6232 | 0.6494 | 0.6605 | 0.6667 |
| 6 | 0.0338 | 0.0393 | 0.0345 | 0.0359 | 0.0366 | 0.0393 | 0.0359 | 0.0373 | 0.0400 | 0.0366 |
| 7 | 0.2029 | 0.3195 | 0.3961 | 0.4693 | 0.5162 | 0.5590 | 0.5749 | 0.5866 | 0.6177 | 0.6425 |
| 8 | 0.0179 | 0.0317 | 0.0435 | 0.0407 | 0.0366 | 0.0283 | 0.0311 | 0.0345 | 0.0366 | 0.0442 |
| 9 | 0.0649 | 0.0504 | 0.0380 | 0.0435 | 0.0469 | 0.0490 | 0.0538 | 0.0531 | 0.0594 | 0.0607 |
| 10 | 0.0138 | 0.0166 | 0.0304 | 0.0407 | 0.0400 | 0.0400 | 0.0380 | 0.0338 | 0.0345 | 0.0359 |
| 11 | 0.0718 | 0.0200 | 0.1180 | 0.2050 | 0.2567 | 0.2754 | 0.2981 | 0.3209 | 0.3340 | 0.3375 |
| 12 | 0.0145 | 0.0138 | 0.0145 | 0.0152 | 0.0166 | 0.0173 | 0.0173 | 0.0179 | 0.0193 | 0.0179 |
| 13 | 0.0669 | 0.0449 | 0.0483 | 0.1297 | 0.1718 | 0.1925 | 0.2008 | 0.2084 | 0.2264 | 0.2319 |
| 14 | 0.0124 | 0.0131 | 0.0159 | 0.0235 | 0.0276 | 0.0235 | 0.0255 | 0.0262 | 0.0304 | 0.0262 |
| 15 | 0.0193 | 0.0207 | 0.0159 | 0.0214 | 0.0235 | 0.0242 | 0.0262 | 0.0276 | 0.0297 | 0.0311 |
| 16 | 0.0186 | 0.0207 | 0.0242 | 0.0359 | 0.0373 | 0.0331 | 0.0276 | 0.0283 | 0.0276 | 0.0276 |
| 17 | 0.0366 | 0.0400 | 0.0200 | 0.0462 | 0.0794 | 0.0973 | 0.1104 | 0.1166 | 0.1208 | 0.1325 |
| 18 | 0.0145 | 0.0145 | 0.0152 | 0.0159 | 0.0159 | 0.0159 | 0.0166 | 0.0166 | 0.0159 | 0.0145 |
| 19 | 0.0317 | 0.0462 | 0.0228 | 0.0455 | 0.0759 | 0.0883 | 0.0973 | 0.1014 | 0.1035 | 0.1035 |
| 20 | 0.0117 | 0.0145 | 0.0152 | 0.0214 | 0.0235 | 0.0242 | 0.0248 | 0.0235 | 0.0242 | 0.0228 |
| 21 | 0.0152 | 0.0131 | 0.0152 | 0.0138 | 0.0131 | 0.0131 | 0.0138 | 0.0131 | 0.0131 | 0.0131 |
| 22 | 0.0104 | 0.0110 | 0.0117 | 0.0131 | 0.0173 | 0.0186 | 0.0186 | 0.0207 | 0.0207 | 0.0193 |
| 23 | 0.0173 | 0.0255 | 0.0255 | 0.0235 | 0.0421 | 0.0531 | 0.0594 | 0.0663 | 0.0718 | 0.0780 |
| 24 | 0.0110 | 0.0117 | 0.0131 | 0.0131 | 0.0131 | 0.0124 | 0.0138 | 0.0145 | 0.0145 | 0.0145 |
| 25 | 0.0255 | 0.0255 | 0.0207 | 0.0173 | 0.0317 | 0.0435 | 0.0504 | 0.0552 | 0.0594 | 0.0621 |
| 26 | 0.0110 | 0.0110 | 0.0117 | 0.0124 | 0.0145 | 0.0152 | 0.0159 | 0.0179 | 0.0179 | 0.0186 |
| 27 | 0.0117 | 0.0117 | 0.0104 | 0.0117 | 0.0124 | 0.0117 | 0.0124 | 0.0117 | 0.0138 | 0.0138 |
| 28 | 0.0110 | 0.0110 | 0.0131 | 0.0131 | 0.0173 | 0.0173 | 0.0186 | 0.0179 | 0.0200 | 0.0173 |
| 29 | 0.0179 | 0.0159 | 0.0138 | 0.0152 | 0.0186 | 0.0255 | 0.0283 | 0.0331 | 0.0359 | 0.0407 |
| 30 | 0.0104 | 0.0117 | 0.0131 | 0.0117 | 0.0124 | 0.0145 | 0.0138 | 0.0159 | 0.0152 | 0.0152 |
| 31 | 0.0159 | 0.0110 | 0.0200 | 0.0193 | 0.0235 | 0.0283 | 0.0304 | 0.0366 | 0.0366 | 0.0386 |
| 32 | 0.0117 | 0.0110 | 0.0124 | 0.0124 | 0.0145 | 0.0131 | 0.0138 | 0.0159 | 0.0173 | 0.0179 |
| 33 | 0.0117 | 0.0117 | 0.0138 | 0.0131 | 0.0138 | 0.0138 | 0.0131 | 0.0138 | 0.0159 | 0.0166 |
| 34 | 0.0117 | 0.0110 | 0.0159 | 0.0145 | 0.0159 | 0.0173 | 0.0166 | 0.0179 | 0.0207 | 0.0179 |
| 35 | 0.0166 | 0.0138 | 0.0186 | 0.0200 | 0.0221 | 0.0255 | 0.0242 | 0.0283 | 0.0317 | 0.0304 |
| 36 | 0.0124 | 0.0138 | 0.0207 | 0.0200 | 0.0214 | 0.0235 | 0.0173 | 0.0228 | 0.0242 | 0.0193 |
| 37 | 0.0152 | 0.0173 | 0.0207 | 0.0207 | 0.0242 | 0.0262 | 0.0228 | 0.0297 | 0.0317 | 0.0297 |
| 38 | 0.0124 | 0.0145 | 0.0221 | 0.0228 | 0.0235 | 0.0242 | 0.0214 | 0.0235 | 0.0235 | 0.0242 |
| 39 | 0.0166 | 0.0152 | 0.0242 | 0.0255 | 0.0269 | 0.0269 | 0.0276 | 0.0297 | 0.0290 | 0.0297 |
| 40 | 0.0145 | 0.0166 | 0.0179 | 0.0173 | 0.0200 | 0.0200 | 0.0200 | 0.0207 | 0.0214 | 0.0207 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Inter-harmonics (Zwischenharmonische) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 75 | 0.1752 | 0.2137 | 0.2339 | 0.2714 | 0.2630 | 0.2953 | 0.3056 | 0.3428 | 0.3289 | 0.3469 |
| 125 | 0.0402 | 0.0599 | 0.0714 | 0.0790 | 0.0782 | 0.0912 | 0.0944 | 0.1021 | 0.0978 | 0.1028 |
| 175 | 0.0306 | 0.0442 | 0.0530 | 0.0573 | 0.0536 | 0.0585 | 0.0603 | 0.0632 | 0.0646 | 0.0674 |
| 225 | 0.0430 | 0.0761 | 0.0896 | 0.0937 | 0.0788 | 0.0812 | 0.0745 | 0.0786 | 0.0755 | 0.0762 |
| 275 | 0.0435 | 0.0576 | 0.0618 | 0.0671 | 0.0548 | 0.0478 | 0.0491 | 0.0529 | 0.0531 | 0.0550 |
| 325 | 0.0205 | 0.0486 | 0.0590 | 0.0650 | 0.0483 | 0.0512 | 0.0463 | 0.0499 | 0.0512 | 0.0509 |
| 375 | 0.0217 | 0.0443 | 0.0552 | 0.0597 | 0.0539 | 0.0466 | 0.0496 | 0.0471 | 0.0446 | 0.0437 |
| 425 | 0.0184 | 0.0213 | 0.0226 | 0.0222 | 0.0261 | 0.0245 | 0.0271 | 0.0274 | 0.0314 | 0.0285 |
| 475 | 0.0180 | 0.0224 | 0.0224 | 0.0245 | 0.0257 | 0.0259 | 0.0283 | 0.0252 | 0.0252 | 0.0273 |
| 525 | 0.0212 | 0.0221 | 0.0292 | 0.0324 | 0.0325 | 0.0318 | 0.0362 | 0.0324 | 0.0303 | 0.0342 |
| 575 | 0.0182 | 0.0207 | 0.0282 | 0.0316 | 0.0309 | 0.0294 | 0.0296 | 0.0299 | 0.0297 | 0.0299 |
| 625 | 0.0206 | 0.0206 | 0.0255 | 0.0297 | 0.0297 | 0.0263 | 0.0266 | 0.0241 | 0.0272 | 0.0260 |
| 675 | 0.0194 | 0.0191 | 0.0255 | 0.0314 | 0.0283 | 0.0303 | 0.0267 | 0.0310 | 0.0273 | 0.0289 |
| 725 | 0.0150 | 0.0191 | 0.0197 | 0.0206 | 0.0219 | 0.0218 | 0.0210 | 0.0244 | 0.0231 | 0.0227 |
| 775 | 0.0151 | 0.0180 | 0.0186 | 0.0203 | 0.0215 | 0.0213 | 0.0210 | 0.0211 | 0.0217 | 0.0203 |
| 825 | 0.0149 | 0.0182 | 0.0201 | 0.0219 | 0.0226 | 0.0236 | 0.0223 | 0.0239 | 0.0221 | 0.0222 |
| 875 | 0.0144 | 0.0189 | 0.0185 | 0.0202 | 0.0231 | 0.0226 | 0.0226 | 0.0213 | 0.0229 | 0.0233 |
| 925 | 0.0147 | 0.0187 | 0.0185 | 0.0191 | 0.0209 | 0.0209 | 0.0202 | 0.0201 | 0.0228 | 0.0217 |
| 975 | 0.0138 | 0.0181 | 0.0196 | 0.0216 | 0.0231 | 0.0216 | 0.0242 | 0.0239 | 0.0233 | 0.0239 |
| 1025 | 0.0130 | 0.0164 | 0.0186 | 0.0179 | 0.0192 | 0.0199 | 0.0212 | 0.0203 | 0.0204 | 0.0198 |
| 1075 | 0.0139 | 0.0165 | 0.0168 | 0.0183 | 0.0197 | 0.0189 | 0.0206 | 0.0203 | 0.0206 | 0.0188 |
| 1125 | 0.0137 | 0.0159 | 0.0180 | 0.0187 | 0.0201 | 0.0199 | 0.0205 | 0.0206 | 0.0193 | 0.0211 |
| 1175 | 0.0128 | 0.0159 | 0.0177 | 0.0180 | 0.0200 | 0.0194 | 0.0201 | 0.0202 | 0.0209 | 0.0214 |
| 1225 | 0.0137 | 0.0167 | 0.0178 | 0.0185 | 0.0203 | 0.0198 | 0.0195 | 0.0196 | 0.0193 | 0.0212 |
| 1275 | 0.0142 | 0.0175 | 0.0196 | 0.0199 | 0.0229 | 0.0216 | 0.0218 | 0.0229 | 0.0237 | 0.0237 |
| 1325 | 0.0134 | 0.0166 | 0.0177 | 0.0173 | 0.0193 | 0.0197 | 0.0207 | 0.0194 | 0.0197 | 0.0199 |
| 1375 | 0.0143 | 0.0167 | 0.0192 | 0.0190 | 0.0194 | 0.0190 | 0.0211 | 0.0208 | 0.0200 | 0.0212 |
| 1425 | 0.0130 | 0.0162 | 0.0173 | 0.0173 | 0.0192 | 0.0189 | 0.0190 | 0.0190 | 0.0201 | 0.0210 |
| 1475 | 0.0129 | 0.0154 | 0.0174 | 0.0174 | 0.0187 | 0.0188 | 0.0188 | 0.0197 | 0.0200 | 0.0215 |
| 1525 | 0.0134 | 0.0162 | 0.0172 | 0.0177 | 0.0191 | 0.0190 | 0.0203 | 0.0193 | 0.0213 | 0.0234 |
| 1575 | 0.0181 | 0.0186 | 0.0175 | 0.0181 | 0.0197 | 0.0199 | 0.0196 | 0.0198 | 0.0221 | 0.0214 |
| 1625 | 0.0133 | 0.0166 | 0.0179 | 0.0194 | 0.0198 | 0.0203 | 0.0201 | 0.0201 | 0.0216 | 0.0209 |
| 1675 | 0.0137 | 0.0166 | 0.0188 | 0.0193 | 0.0213 | 0.0210 | 0.0210 | 0.0200 | 0.0215 | 0.0216 |
| 1725 | 0.0140 | 0.0159 | 0.0194 | 0.0196 | 0.0222 | 0.0213 | 0.0241 | 0.0225 | 0.0244 | 0.0252 |
| 1775 | 0.0144 | 0.0166 | 0.0197 | 0.0211 | 0.0233 | 0.0243 | 0.0237 | 0.0237 | 0.0274 | 0.0287 |
| 1825 | 0.0151 | 0.0181 | 0.0220 | 0.0225 | 0.0244 | 0.0252 | 0.0254 | 0.0263 | 0.0287 | 0.0290 |
| 1875 | 0.0154 | 0.0182 | 0.0216 | 0.0219 | 0.0237 | 0.0236 | 0.0251 | 0.0257 | 0.0264 | 0.0270 |
| 1925 | 0.0160 | 0.0192 | 0.0207 | 0.0233 | 0.0243 | 0.0241 | 0.0244 | 0.0239 | 0.0252 | 0.0259 |
| 1975 | 0.0185 | 0.0207 | 0.0227 | 0.0237 | 0.0257 | 0.0257 | 0.0265 | 0.0263 | 0.0262 | 0.0270 |

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APPENDIX (ANHANG)

Annex to Certificate No. (Anhang zur Bescheinigungsnummer): CN-PV-220033

| Higher frequencies (Höhere Frequenzen) | | | | | | | | | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Active power (Wirkleistung) P/P_n [%] | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
| Frequenz (Frequency) [kHz] | I [%] |
| 2.1 | 0.0136 | 0.0147 | 0.0162 | 0.0158 | 0.0174 | 0.0160 | 0.0171 | 0.0179 | 0.0172 | 0.0190 |
| 2.3 | 0.0109 | 0.0143 | 0.0201 | 0.0210 | 0.0210 | 0.0203 | 0.0219 | 0.0220 | 0.0213 | 0.0225 |
| 2.5 | 0.0089 | 0.0118 | 0.0127 | 0.0132 | 0.0131 | 0.0129 | 0.0135 | 0.0143 | 0.0163 | 0.0159 |
| 2.7 | 0.0089 | 0.0100 | 0.0124 | 0.0131 | 0.0136 | 0.0129 | 0.0135 | 0.0140 | 0.0145 | 0.0144 |
| 2.9 | 0.0088 | 0.0099 | 0.0110 | 0.0115 | 0.0138 | 0.0117 | 0.0133 | 0.0127 | 0.0141 | 0.0143 |
| 3.1 | 0.0080 | 0.0093 | 0.0120 | 0.0122 | 0.0117 | 0.0128 | 0.0137 | 0.0137 | 0.0137 | 0.0137 |
| 3.3 | 0.0092 | 0.0116 | 0.0125 | 0.0117 | 0.0130 | 0.0131 | 0.0129 | 0.0131 | 0.0136 | 0.0132 |
| 3.5 | 0.0103 | 0.0103 | 0.0110 | 0.0137 | 0.0142 | 0.0124 | 0.0130 | 0.0121 | 0.0141 | 0.0138 |
| 3.7 | 0.0084 | 0.0112 | 0.0113 | 0.0111 | 0.0112 | 0.0128 | 0.0151 | 0.0136 | 0.0135 | 0.0138 |
| 3.9 | 0.0093 | 0.0114 | 0.0118 | 0.0125 | 0.0122 | 0.0131 | 0.0128 | 0.0134 | 0.0130 | 0.0125 |
| 4.1 | 0.0104 | 0.0113 | 0.0121 | 0.0120 | 0.0130 | 0.0126 | 0.0130 | 0.0137 | 0.0148 | 0.0146 |
| 4.3 | 0.0088 | 0.0106 | 0.0127 | 0.0119 | 0.0120 | 0.0138 | 0.0128 | 0.0127 | 0.0129 | 0.0121 |
| 4.5 | 0.0095 | 0.0109 | 0.0122 | 0.0129 | 0.0135 | 0.0132 | 0.0128 | 0.0133 | 0.0126 | 0.0139 |
| 4.7 | 0.0086 | 0.0104 | 0.0113 | 0.0119 | 0.0120 | 0.0122 | 0.0127 | 0.0135 | 0.0145 | 0.0151 |
| 4.9 | 0.0085 | 0.0098 | 0.0111 | 0.0122 | 0.0117 | 0.0111 | 0.0134 | 0.0130 | 0.0130 | 0.0132 |
| 5.1 | 0.0097 | 0.0111 | 0.0127 | 0.0125 | 0.0132 | 0.0125 | 0.0127 | 0.0133 | 0.0134 | 0.0144 |
| 5.3 | 0.0081 | 0.0102 | 0.0119 | 0.0114 | 0.0119 | 0.0131 | 0.0125 | 0.0139 | 0.0137 | 0.0146 |
| 5.5 | 0.0086 | 0.0094 | 0.0111 | 0.0118 | 0.0122 | 0.0123 | 0.0128 | 0.0127 | 0.0123 | 0.0118 |
| 5.7 | 0.0083 | 0.0120 | 0.0124 | 0.0119 | 0.0127 | 0.0131 | 0.0136 | 0.0168 | 0.0150 | 0.0148 |
| 5.9 | 0.0099 | 0.0108 | 0.0118 | 0.0128 | 0.0136 | 0.0144 | 0.0154 | 0.0171 | 0.0197 | 0.0221 |
| 6.1 | 0.0102 | 0.0115 | 0.0124 | 0.0140 | 0.0157 | 0.0148 | 0.0151 | 0.0164 | 0.0186 | 0.0181 |
| 6.3 | 0.0090 | 0.0114 | 0.0125 | 0.0141 | 0.0134 | 0.0139 | 0.0135 | 0.0133 | 0.0146 | 0.0142 |
| 6.5 | 0.0089 | 0.0117 | 0.0126 | 0.0140 | 0.0171 | 0.0174 | 0.0183 | 0.0178 | 0.0186 | 0.0179 |
| 6.7 | 0.0094 | 0.0111 | 0.0121 | 0.0122 | 0.0125 | 0.0131 | 0.0144 | 0.0143 | 0.0152 | 0.0154 |
| 6.9 | 0.0103 | 0.0131 | 0.0141 | 0.0142 | 0.0143 | 0.0147 | 0.0162 | 0.0157 | 0.0158 | 0.0159 |
| 7.1 | 0.0086 | 0.0099 | 0.0114 | 0.0116 | 0.0122 | 0.0130 | 0.0125 | 0.0141 | 0.0156 | 0.0158 |
| 7.3 | 0.0091 | 0.0093 | 0.0113 | 0.0108 | 0.0121 | 0.0113 | 0.0127 | 0.0118 | 0.0135 | 0.0137 |
| 7.5 | 0.0097 | 0.0112 | 0.0128 | 0.0122 | 0.0122 | 0.0124 | 0.0131 | 0.0119 | 0.0132 | 0.0120 |
| 7.7 | 0.0078 | 0.0103 | 0.0116 | 0.0108 | 0.0112 | 0.0111 | 0.0119 | 0.0120 | 0.0124 | 0.0115 |
| 7.9 | 0.0083 | 0.0089 | 0.0098 | 0.0109 | 0.0111 | 0.0112 | 0.0110 | 0.0110 | 0.0108 | 0.0113 |
| 8.1 | 0.0089 | 0.0110 | 0.0114 | 0.0118 | 0.0110 | 0.0117 | 0.0128 | 0.0114 | 0.0115 | 0.0132 |
| 8.3 | 0.0079 | 0.0089 | 0.0139 | 0.0109 | 0.0110 | 0.0114 | 0.0114 | 0.0119 | 0.0114 | 0.0121 |
| 8.5 | 0.0096 | 0.0093 | 0.0090 | 0.0115 | 0.0135 | 0.0100 | 0.0110 | 0.0110 | 0.0104 | 0.0111 |
| 8.7 | 0.0086 | 0.0115 | 0.0104 | 0.0116 | 0.0124 | 0.0130 | 0.0124 | 0.0109 | 0.0120 | 0.0129 |
| 8.9 | 0.0079 | 0.0097 | 0.0113 | 0.0101 | 0.0109 | 0.0109 | 0.0106 | 0.0104 | 0.0103 | 0.0101 |

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